

Manufacturers Record

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development
of the South and Southwest as the Nation's Greatest Material Asset

Trade-Name Registered in the U. S. Patent Office

Vol. LXXXI, No. 8
WEEKLY.

BALTIMORE, FEBRUARY 23, 1922

SINGLE COPIES, 20 CENTS
\$6.50 A YEAR.

PUBLISHED EVERY THURSDAY BY THE
MANUFACTURERS RECORD PUBLISHING CO.

Office: Manufacturers Record Building, Cor. Commerce and Water Sts.
BALTIMORE, MARYLAND

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NOW LET BUSINESS MOVE FORWARD.

"FURTHER excessive borrowing," declares President Harding, "would likely undo all that has been accomplished in readjusting interest rates and stabilizing the financial world, both vitally essential to the resumption of industrial and commercial activities."

Last summer a statement issued from the White House declared that one of the most significant achievements of the administration had been the lowering of the rediscount rate and the reversal, to some extent, of the financial policy pursued by the previous administration. We now have the President himself emphatically declaring that a readjustment of interest rates was "vitally essential" to any resumption of activity.

The Comptroller of the Currency, in a statement issued February 18 from the White House, declares that while the aggregate deposits of national banks fell, between December 29, 1920 and September 6, 1921, \$1,717,000,000, they have risen, since September 6, 1921, as of December 31, 1921, \$514,250,000. "Not only has the tide turned, but it has been flowing strong and steady." And the Comptroller adds that the "figures indubitably demonstrate that the peak of liquidation and of consequent depression was passed somewhere between September 6, last and December 31, last, and that the tendency has been steadily toward improving business and less reliance of business upon the support of the banks."

It will be noted that the Comptroller does not hesitate to speak of the depression as consequent on liquidation.

From the time when Mr. Crissinger entered the Reserve Board he has not hesitated to make known his aggressive opposition to the drastic deflation policy which had been in effect when he was made Comptroller of the Currency, and we have repeatedly published his statements to that effect.

When liquidation was running amuck, the rediscount rate was anywhere between six per cent and 8 1/2 per cent, according to the bank that happened to require accommodation. Call money in New York was from seven per cent up and

great corporations were forced to market their gold bonds at rates yielding more than seven per cent.

Today the rediscount rate in most of the regions is four and one-half per cent and in none is it over five per cent. Call money has been around four per cent in New York. The Bank of England has reduced its rate to four and one-half per cent, the pre-war rate.

Omitting consideration of the ruin caused by the extortion practiced when business was at its zenith, it is clear that at last there has been reached a status where it is possible for business to move with some assurance. True, there cannot be complete confidence until Governor Harding is out of office, which ought to be in August next, nor can men feel entirely safe so long as there is no law compelling due notice and public hearings prior to any change in rediscount rates, as well as a decentralization of the colossal power now resident in the Federal Reserve Board; but even allowing for those obstacles, sanity has worked its way in Washington sufficiently to justify the optimism of Comptroller Crissinger. No man, we judge, appreciates more clearly than he does the determining effect of money rates on business movement.

The nation, for the first time in more than two years, has the ammunition with which to fight its commercial battles. Citizens are promised that they can have powder without undue penalties. The country's enormous assets it will be permitted to use.

What are those assets?

More than one hundred millions of people, accustomed to free spending, each carrying in his brain and arm the baton of a commercial marshal, eager, energetic, with initiative beyond any other people on earth, willing to take a chance and hungry for achievement. They have about them not only incomparable resources in the form of raw materials, but in the instrumentalities of production by manufacture they possess likewise the greatest plant the world has ever known. There is no basic industry in which they are not proficient. They retain among themselves all the elements of prosperity. If they have lacked anything, it has been the vehicles of commerce rather than the ability to produce and to consume. These vehicles are the transportation machinery and proper credit facilities. The former, at present, due to the depression, is temporarily more than adequate for the business offering, and the latter, as we have shown, have been likewise brought into some sort of proper relationship to conditions.

It is sheer nonsense to aver that the nation must groan in poverty until and unless we lend billions more to Europe. Our exports of wheat last year broke all records. There was no inability on the part of Europe to buy. Nor is there now. Europe has the wherewithal to supply her necessities. Our problem is domestic, not foreign, and it will be solved right here in the United States, not in Paris or Genoa.

The Comptroller of the Currency declares that "recent stabilizations of prices for agricultural staples have brought the farmers to the point where they are able to realize something at least approximating costs of production, and can

look forward hopefully to still further improvements in no very distant future." Comptroller Crissinger generally speaks by the card. He knows what he is talking about. To him more than to any other man, we imagine, has the reversal of Federal Reserve Board policies been due. He has had the brains to see and the backbone to stand for a policy antagonistic to the rule of ruin. He knows what lower discount rates will mean for agricultural prices and his prophecies are based on realities, not on blind optimism.

The country, dark as conditions are in some sections, is slowly but surely turning back toward normal. It is too soon to say, "Now is the winter of our discontent made glorious summer by this son of York," but the lights of approaching day are beginning to appear. Men may take heart again. It will require courage for some to smile, but courage alone can storm the strongholds of depression. We yield not one iota in our antagonism to policies that are wrong and destructive, but the impedimenta in the way of business are not now overwhelming and it is time for all men of intelligence and purpose to gird their loins and take part in the approaching era of rehabilitation, reconstruction and recovery.

Moreover, the big financial interests have evidently reached the conclusion that deflation was carried too far and the destruction in prices was endangering all of their vast interests as well as the prosperity of the farmers, of the railroads and of business generally.

Wall Street usually discounts the coming of good times or bad times and the marked advance during the last week or ten days in the securities of the United States Steel Corporation, which to a large extent is the barometer today set by Wall Street, indicates that the big financiers see returning prosperity coming over the hill. In many places corn has also advanced from twenty cents a bushel to more than forty cents at the farm, while cotton has also shown a rising tendency.

From the beginning we have said that the one and only road which could lead the country back to prosperity would be rising prices, and that whenever there came a marked advance in prices the country might know that we were moving in the right direction. The advance in cotton late last summer was held by the nation, even by the financial forces of the country, as of unspeakable value, lifting the burden which up to that time had steadily been pressing the farmers to deeper ruin, such as the Western farmers had endured. But as soon as cotton commenced to rise the banks commenced to call their loans, and this broke cotton down. In the same way the Western banks called the farmers' loans and forced enormous exportation of wheat last summer and fall. As disastrous as this method has been the indications now are that we have passed the turning point, that big banks and bankers and the Reserve Board as well see the unspeakable folly, the stupendous blunder of the drastic deflation of the past, a blunder which might be called the greatest financial crime in history, and having learned the lesson, are now as President Harding and Comptroller Crissinger have so strongly said, "Opening the way for better business, for a revival of activity, and for rising prices."

The losses have been stupendous but the nation can no longer live in the contemplation of losses. There are but few men in America who have not suffered from these tremendous unnecessary losses, but if the entire nation, forgetting the things that are behind, will march with heroic courage into battle for new business with that marvelous spirit, unsurpassed in human history, with which the South fought its way to prosperity from the depth of poverty and woe following the Civil War and reconstruction days, there will be a prosperity throughout the entire country which will match the amazing advancement of the South out of the poverty of reconstruction.

The machinery of finance has been readjusted to a large

extent. The dominant forces in Washington are as eager now to restore prosperity as were the dominant forces in the Federal Reserve Board two years ago to break down prosperity. The change is typical of the whole situation.

It is time for the nation to get to work.

UNPREPAREDNESS A VERY EXPENSIVE LUXURY.

IT is the fashion to elaborate the enormous savings which result in dollars and cents from unpreparedness.

Unpreparedness never saved this nation or any other a five-cent piece. Business men, wishing to economize on preparedness, changed Carthage from the Mistress of the Mediterranean into mouldering ruins on a desert. The refusal of Dutch business men to keep up the Dutch navy put the seas at England's mercy. The money this nation saved in 1914-1915-1916 by declining to make ready for the great war cost us in 1917 and 1918 double and treble, in money and lives, what the expenditure otherwise would have been.

We welcome any honest and sincere agreement among the nations for the elimination of prodigal naval competition, but we reject as a menace to our security and our property the absurd contention that a dollar not spent on preparedness is a dollar saved.

SIMPLE STATEMENT OF A GREAT TRUTH.

The New York Herald says editorially:

British bankers know that if they encourage industry and trade with cheap money, industry and trade will in turn respond with enlarged production which will fetch far more substantial support to the British pound than a bid for gold through higher bank rates could ever bring.

This fundamental British faith in cheap money for trade and industry explains the new reduction in the Bank of England discount rate to $4\frac{1}{2}$ per cent. A $4\frac{1}{2}$ per cent rate at the Bank of England means industrial money and trading funds for British enterprises at less than 4 per cent, which is a normal interest charge even in the traditional cheap money market of London.

Aye, aye! But why didn't the Herald broadcast this great truth when the application of it would have saved American industry? We see the urge to commerce firing idle furnaces, and the hum and roaring of the engines is in the offing. Each relaxation of the restrictions on credit, each lowering of the interest rates has dammed a tide of pessimism and set trade's heart athrill again. Events crowd one another in vindicating the absolute correctness of the fundamental position the MANUFACTURERS RECORD has been expounding. It is production, not high interest rates, that makes a nation rich, and the bankers' panic terminates itself as money and credit are allowed to reach their natural levels.

LOOK THE FACTS IN THE FACE.

THE total export trade of the United States in 1921 was 45 per cent less than in 1920, in dollars. In quantity, the decrease was negligible. The export trade of 1921 exceeded by 90 per cent that of the highest pre-war year. The excess of exports over imports in 1921 was approximately \$2,000,000,000 and in the largest pre-war trade year, 1913-14, it was less than \$500,000,000. The balance of trade in our favor was more than four times as large in 1921 as in any pre-war year.

Yet the international financiers have been trying to make the country believe that the depression in the price of farm commodities was due to the failure of foreign countries to buy.

The Railroad Freight and Labor Question From Different Angles.

Number 1.

SECOND only to the straightening out of our financial system is the straightening out of our railroad situation. Adverse legislation for 20 years, originally due to unwise railroad mismanagement, has resulted in a condition which endangers the entire transportation system of the country.

Since the panic of 1907 our railroad facilities have not kept up in proportion to the growth of the country and to the needs of the coming years. During the war, railroads were taken over by the Government and mismanaged worse than they had ever been by private management despite all that Mr. Wm. G. McAdoo may say to the contrary. Their rolling stock was permitted to run down; their track was not kept up, and there was fastened around the railroad management the curse of a complete domination of all railroad interests by the labor element.

The most cowardly surrender of American sovereignty ever made, and we trust the most cowardly that ever will be made to an enemy at home or an enemy from abroad, was that in which the Wilson Administration and Congress, Republicans and Democrats alike, surrendered the sovereignty of this country to the threat of the Brotherhoods. Never before had any set of men dared to appear on the floor of Congress and practically say to the Government that, "we will do our utmost to wreck the business interests and the life of America unless you instantly yield to our demands;" and Congress and the President cowardly yielded, and sowed the seed of disorganization of business, and of a revolutionary spirit, and we are reaping the whirlwind from what was sown at that time.

Later on Congress, again unwisely, created the War Labor Board in order to give to a small set of men the absolute domination over railroad management.

All of this legislation was without any reason in morals or in economics. It has proven a curse, a curse of indescribable extent not only to the business interests of the country pure and simple, but to the politics and all the wide ramifications of national life.

The railroads were nominally returned to their owners, but the Government chained them in an economic slavery to labor unions and the War Labor Board. It is not merely a question of wages involved, for while the wages of the railroad people are far too high in proportion to the present business conditions of the country, the power to enforce regulations in the matter of employment and of work has been taken from the responsible heads of the railroads and given to others. The railroad officials are required to produce the bricks without the material with which to make them, a condition which the Israelites of old found impossible.

The high freight rates now existing are recognized by many broad-minded railroad people as destructive to business prosperity. Some officials deny this; others freely admit it; and every business man in the country trying to do business knows that the freight rates are hampering and restricting

all operations. Freight rates which could have been borne under the higher prices that were prevailing for farm and factory products, when these rates were adopted, cannot be endured at the present time without destruction of business or its serious curtailment, as shown in the fact that there are about 500,000 idle freight cars in the country, or between one-third and one-fourth of the cars which are in sufficiently good condition to be useable; and indeed as one watches freight trains today he wonders that half the cars that are on the track do not drop to pieces.

Shall the railroads boldly meet the issue which the public demands, and lower freight rates and test the question as to whether a reduced freight rate would put their idle rolling stock to work?

Shall they recognize that with millions of farmers bankrupt, and with business men everywhere restricted in their operations they must meet the issue?

Or will they finally decide that there shall be no decrease in freight rates until there has been a decrease in wages and a freedom given to railroad officials to manage the operations of their roads?

Or shall the country wait until such pressure has been brought upon Congress as to force the repeal of the Adamson Bill and the War Labor Board?

Which way lies safety and prosperity?

The railroads are demanding the right to earn an income on their invested capital, but the farmers have been denied that privilege, comparatively few manufacturers are earning an interest on their capital, and most of them are recording heavy losses.

Shall the railroads be exempt from taking the same dose of medicine which the farmers and the business men have been forced to drink through the deflation process which has been an unspeakable evil?

Or shall the railroad men unite and demand of the banking interests of the country that there shall be freer credit, increased currency circulation, and a reversal of all the policies which brought on the present depression in order that rising prices may justify the present freight rates.

These are questions which confront the country. They demand the broadest discussion, without any hostility on either side. Most interests, we believe, are trying sincerely to find a way out of the wilderness of poverty through which we have been marching. Is there in sight a Moses to lead the country to the Promised Land?

Because of the necessity of this broad discussion the MANUFACTURERS RECORD has recently very strongly urged reduction of freight rates without waiting for lower wages, believing that this would not destroy the railroads as officials claim, but that it would develop a larger volume of business and put into operation all of their idle rolling stock. This has

brought forth some criticism from railroad officials. We welcome these criticisms.

In publishing the letters from these officials and the replies by the Editor of the MANUFACTURERS RECORD we do so merely in the hope that some light may be thrown on this general situation. We will follow this discussion through several weeks. We are as anxious to save the railroads in the interest of the country, as we have been to save the farmers, for we recognize the fact that each is essential to the nation's progress. As the agricultural interests have been completely broken down to a point of greater poverty than has ever before existed in that industry in this country, the question must be asked, can the railroads be pulled through without the same drastic suffering? We believe that there is only one way to accomplish this, and that is a broader and more intelligent financial policy which will bring back higher prices to all farm interests, which will stimulate manufacturing and thus justify high freight rates. Unless this can be done, freight rates will by economic forces beyond man's control be driven down, regardless of what may happen.

We begin the discussion of the subject with a reply to an intelligent Florida farmer, and follow with a letter to Traffic Manager Spence of the Southern Pacific Railroad.

A Farmer's Questions On Railroad Wages Answered.

S. H. GAITSKILL

Breeder of
Shorthorn Cattle and
Duroc Hogs

McIntosh, Florida, February 3.

Editor Manufacturers Record:

I am wondering if I am benighted or so far in error as not to be considered, or if the men in public life and the newspapers are afraid to handle the question I ask. I know that you are not afraid to speak and tell me I am wrong, or to say I am right.

I have written to several public men—among them Mr. Secretary Wallace—and to several newspapers, and none will touch the question of the farmer's trouble—as I see it. I contend that the farmer could do fairly well and would pull ahead without complaint if he could be relieved of the excess overhead charges. I think you would not have to go back many years to find the prices the farmer received for his products were as low as they are today, but then his freight charges were a great deal less—he did not have to pay the high wages to railroad labor; his coal cost him a great deal less—he did not have to pay the high wages of the present day coal miner, and on thru his shoes, clothes and farm implements.

Take the price of a mowing machine today and compare it with what he paid for mowing machines ten years ago. These high wages run all thru all mechanical labor. All out of line with what the farmer gets for his products and—for all of this—our Government is responsible. It says to the railroads—you must pay certain stipulated wages, and all other labor demands wages on a par with railroad labor, virtually saying—All of the other citizens of the United States must pay tribute to this railroad labor. I asked Mr. Secretary Wallace why he thought Samuel Gompers was fit to be a delegate to a farmer's conference—no man could be more out of sympathy with the farmer. All plans for cooperation will come to naught until the farmer is relieved of excess labor charges—and the farmer pays forty per cent of all of this excess labor charge. The farmer bloc may soon see where the trouble lies and demand the repeal of the Adamson law, the abolishment of the Labor Board, and tell Samuel Gompers and Union Labor to—Go way back and sit down. You tell me, please, where I am in error.

S. H. GAITSKILL.

Replying to the letter of Mr. Gaitskill, the MANUFACTURERS RECORD would say that Samuel Gompers should never have been asked to be a member of the so-called Agricultural Conference, and that the invitation extended to him

was merely catering to the socialistic labor vote, as Gompers is in no way whatever connected with agriculture, and the only interest he has in agriculture is to keep prices of farm products as low as possible in order that Union Labor, working eight hours a day, may secure cheap foodstuffs raised by farmers who work fourteen to fifteen hours a day and at wages absurdly small as compared with Union Labor.

We are not surprised that the public men to whom Mr. Gaitskill put his pointed questions have not replied. They want apparently to cultivate the farmers, and yet not offend the labor vote. They want "to straddle the fence" and "be all things to all men," stepping over on whichever side of the fence the public clamor seems to be the loudest at the time. That is the way of all politicians.

During the war this Government was responsible for permitting Mr. Gompers and the politicians who hoped to get back into office through the labor vote, practically to control the employment and the payment of labor. Believing in good, substantial, well paid wages as the MANUFACTURERS RECORD has always done, believing that low priced labor is never in the end the cheapest labor, we have nevertheless always fought the outrageous privileges given to labor during the war, while the soldiers were forced to risk their lives for a dollar a day and keep. But there were a great many men besides Mr. Gompers who should never have been called into the Agricultural Conference. There were men there whose business it has been to make the largest possible profits out of the farmers' products, and men who were not there who have given more study to agricultural matters than any men who were at the conference. Some good, possibly, came out of the discussions of the conference, but a real opportunity for the real farmers of the country to express their views in the open was denied, for not many of them were in attendance; although there were representatives of many so-called Farmers Bureaus or Clubs, and many of these officers are not practical, broad thinking farmers who understand the whole situation.

It is true the Government has compelled the railroads and the coal people to pay wages which are exorbitant as compared with what the farmer can earn. It is not simply these low wages forced by the War Labor Board, but it is the iniquity of taking from the railroads the right of management of their own properties and the details in connection with the employment of men which is a greater curse than the wages themselves.

The Government forced upon the railroads the Adamson Bill, probably the most iniquitous measure ever passed by Congress, for it took from the nation itself its sovereignty and surrendered it to a lot of brotherhoods who stood with pistol at the head of Congress and dared Congress to deny their demands. And the President and Congress alike cowardly surrendered, and then the brotherhoods dictated the terms of the Adamson Bill which has been a curse to the railroads, a curse to the country, a curse to every business in the country, and to every man and woman in it. It is, indeed, a curse to the railroad brotherhoods themselves, because it has created in them a false idea as to their rights as American citizens, and it has developed against them a spirit of hostility which will know no end for years to come; for even though the Adamson Bill be repealed—as it should be—and the War Labor Board be blotted out of existence—as it should be—these two bills have created on the part of the public a spirit of enmity toward a body of men once honored by the American people as a whole, and now almost hated by a large proportion of the American people; for wrongs such as these men have committed against the sovereignty of the country and the welfare of others is a seed which fructifies not in good to them, but in hatred to them by the country at large; and never again, or, at least for years to come, will these men stand as high in public

estimation as they did before these acts were committed.

The rates of freight as now existing are well nigh killing to agriculture and all other interests. About one-fourth to one-third of the entire rolling stock of the country fit for use is idle for lack of business. But the railroad officials plead that their properties cannot possibly live upon lower rates with the burden of the Adamson law and of the War Labor Board forced upon them. They have no control over their men; practically no right of employment or discharge; no right in the matter of fixing wages or hours of labor. When the Government nominally turned back railroads to private ownership, it did so only nominally, for it had hamstringed the railroads and tied around their operations laws and regulations which deprive the railroad officials of almost every right which they should have in the management of their properties. Billions of dollars have been added to the cost of railroad operation through the Adamson Bill and the War Labor Board not only by the actual increase in wages and the shorter hours forced upon railroads, but by the petty annoyances which deprive railroad officials of the right of employment and of control of their men. Thousands of incompetent negro porters and flagmen are getting far higher wages than the most energetic farmer, operating on a large scale, can make out of his investment in farm land.

We have been fighting railroad freight rates and fighting them vigorously because we believe that even under present conditions they should be reduced in order to save the whole situation; but if the farmers of the country would fully understand the situation as Mr. Gaitskill does they would never cease to fight for a repeal of the Adamson law and the wiping out of existence of the War Labor Board until these two things were accomplished, and they would see that Mr. Samuel Gompers is never again invited to participate in a conference for the betterment of agricultural conditions. That is not Mr. Gompers place. If the farmers should follow his teachings and reduce their hours of labor to eight per day, and reduce the output of their work as Union Labor has to a large extent done, this country would within two years be on a starvation basis, and Union Labor itself would realize that it had killed the goose—for goose the farmer indeed has been—which for years has been laying the golden eggs of abundant food supply for people who did not appreciate the work of the farmer and sought only his enslavement by forcing down the prices of farm products regardless of whether the farmer lived or starved.

Go to it, Mr. Gaitskill; you and every other farmer in the land, and never end your fight until the business interests of this country are relieved from the control of such laws as the Adamson Bill, the War Labor Board, and all the other commissions dominated by politicians for political effect which have sapped American initiative and have taken from the American people the power to do business on their individual responsibility. When you get this done you can get lower freight rates and that would lower the cost of everything you buy.

Railroad Officials and Investors Must Study the Public's Side of the Freight Rate Question.

In a recent interesting discussion of the whole railroad situation, Mr. Lewis J. Spence, Director of Traffic, of the Southern Pacific Railroad, took the ground that a year ago the country was so eager to get the railroads back into the hands of private owners and away from Government domination that no point was raised about the reasonableness of the rates charged, and that at that time the people at large seemed to think that anything was desirable in order to have the roads rehabilitate themselves and be in a position to resume their development work and take their position as factors in the line of progress. Mr. Spence

also expressed the thought that the MANUFACTURERS RECORD might have sought the opinions of the railroad people as to their views on the subject before taking the position it has taken in regard to the necessity of a reduction of rates.

In reply to these points, made in what of course was a pleasant, frank, good humored discussion of the subject between Mr. Spence and a member of the MANUFACTURERS RECORD's staff, the Editor of the MANUFACTURERS RECORD wrote to Mr. Spence referring to the points just quoted, and said:

"The MANUFACTURERS RECORD repeatedly said that if the Federal Reserve Board carried on its drastic deflation campaign and broke down prices of products, it would be impossible to continue the high freight rates which had been established, and which at the time of their establishment the MANUFACTURERS RECORD heartily commended as a step in the right direction toward saving the railroads. But when the railroad people and the bankers of the country stood by and either approved or did not disapprove the fight which the Reserve Board made for the breaking of all prices, we constantly warned the railroads and the country that it would be absolutely impossible for business to continue to pay the rates of freight then prevailing. When cotton was selling at 35 to 40 cents a pound, and pig iron at \$40 a ton, and other things in proportion, the freight rates which were authorized by the Interstate Commerce Commission were justified, and could be borne without serious inconvenience. But when cotton was forced down deliberately to 10 cents a pound, though it has since reacted, and pig iron \$17 to \$18 a ton and wheat and corn to prices which leave a loss on every bushel sold, it became absolutely impossible for these products and the general business interests to continue to pay the freight rates existing, and live. The Government, through the financial management, had forced a liquidation of commodities or created a commodity panic which is the worst in the world's history. In doing so, they absolutely compelled a liquidation in freight rates, even if that meant a liquidation in the value of railroads, and no one realizes the seriousness of this more than I do.

"For more than a quarter of a century I have fought unwise legislation against railroads. I fought the creation of the Interstate Commerce Commission, and I fought the bill giving that commission the right to fix freight rates, stating that it would result in more evil to the country than all the good which could ever be accomplished by the fixing of freight rates. I fought the Adamson bill with all the power that the MANUFACTURERS RECORD could summon against that iniquitous piece of legislation. I have never ceased to fight it, and never expect to stop fighting it until it has been repealed. But I have tried for forty years or more to study the economics of this country and of the world, and when deflation destroyed the values of products and threw millions of people out of employment, I knew that freight rates must decline under an economic law which no legislation could halt. I knew what public sentiment would be, and I was trying to get the railroads to win the favor of the public by voluntarily taking the stand for lower freight rates, even though temporarily this might mean a loss, feeling assured that it would help to revive business, and would stem the rising tide of hostility to railroads and win public favor back to them. You cannot possibly win public favor in any other way.

"The farmers, the manufacturers and the unemployed people are suffering as they have not suffered for generations, and they will naturally resent the claim that the railroads must have net profits on their operations when the farmers and all other interests are showing net losses. Secretary of Agriculture Wallace, in his address before the Chamber of Commerce of Boston on December 19th—and if you have not read that address, I would strongly urge you to do so—said that in proportion to what the farmer has to buy, the value of his products is today lower than ever in the history of American agriculture, and that is unquestionably true. In the years of great depression from 1892 to 1896, when wheat and corn and cotton sold at extremely low prices, the prices of things which the farmers bought, freight rates, for instance, which in effect is a commodity bought by the farmer and others, and all other things bought by the farmers, were extremely low, and the farmer selling his products as cheaply as he then did could get more in return than what he can now get, at the prices prevailing, of what he sells and what he buys.

"Under these conditions, every claim made by railroad

men that they must have earnings on their investments not only retards business and stops the movement of freight but is like a red rag to a bull shaken in the face of five million people out of employment, and whose families are well nigh starving, of millions of farmers who are bankrupt, and of almost all of the manufacturing interests of the country, which are running without profit, and many at heavy loss. These people naturally ask: Why is the capital invested in railroads more sacrosanct than the capital invested in our business interests or in our brain and muscle?

"And this question cannot be disregarded. These people will demand an answer, and they will give the answer themselves, and their number is many times greater than the number of investors in railroads, measuring the number of investors by any standard of those interested in insurance or savings banks as well as stock holders.

"I am carrying a great deal of insurance. Upon the safety of insurance companies might depend in the future the welfare of my family, and I know the relation that insurance companies bear to railroad securities, but I also know that before we get to this point we have got to recognize the plight of the farmers bankrupted by the millions, and this is literally true, and the plight of five million people out of employment, representing at least fifteen to twenty million people suffering for food. Even in the light of these facts, my contention in regard to lower freight rates has been that they would be better for the railroads themselves. There have been hundreds of thousands of idle cars, and thousands of locomotives representing invested capital not in use, and the tracks and the terminal facilities of invested capital which are being utilized only to a limited extent in proportion to their value. If all of these cars and locomotives and tracks and terminal facilities were fully employed, even at a lower freight rate, the results would be beneficial to the railroads, and the prosperity of the country would be greatly stimulated. You must recognize that the public will not invest in railroad securities so long as railroads are exacting the present rates of freight, for the public will naturally say that these rates cannot be permanent, and unless the railroads can make some earnings on lower rates, they will not invest in railroad securities.

"The railroads could have easily won the favor of the public in causing the public to demand the repeal of the Adamson law if they had gone about it in a way to win public sentiment. Your road has recently announced that in order to meet the competition of the Panama Canal it will cut its rates heavily. The public says if you are cutting rates to meet water competition, we will increase the nation's water transportation facilities, and force all railroad rates down to a water rate level, for lower rates we must have, and we will have. That is the position that the people of the country are taking; it is the position of the biggest business men in the United States, conservative, intelligent, thinking men; and it is the position of the day laborer and the farmer and of others who are brought in touch with railroad work. One of the leading railroad presidents of the United States told me a year ago in my home in Daytona that much of the difficulty which the railroads were facing was due to their utter disregard of public sentiment. 'The railroad officials', said he, 'will not recognize that the public not only has rights which must be respected, but it has sentiments which must be cultivated, and nearly all railroad people in the country have short-sightedly sought to fight public sentiment instead of seeking to win public sentiment.' That statement, and much more of the same kind, was made by a railroad president operating one of the most important roads of the country, who fully appreciates the need of cultivating public sentiment, and who also realized that railroad officials as a whole have done less in this respect than the heads of any other great industry. Some of the biggest department stores of the country, for instance, have a rule that the customer is always right, and that if he says he has been badly treated, the firm immediately accepts the customer's decision, and refunds the money paid or makes whatever provision the customer desires, regardless of its own temporary loss, realizing as it does the value of public sentiment. Here, for instance, is another expression of that way of doing business, from a letter which is lying on my desk from Mr. F. L. Seely, who is running in the mountains of North Carolina the largest hand weaving industry in the world in size. In the course of a personal letter he says:

"You will be glad to know that we are making a success on the Marshall Field basis, namely, that any dissatisfaction is replaced or money refunded, and even the tailor bill is refunded in cases where it has been asked. Any person

who buys our homespun goods, and we have thirty thousand individual customers on our books, who gets the goods and finds that he does not like even the color, may send the stuff back, although it has been cut.

"Now it is entirely possible, even though some of my railroad friends question it, that the whole railroad business of the country could be run somewhat in this spirit, and in the spirit of the department store people who without question accept the customer's statement and say, as Marshall Field & Co. do, I believe, that the customer is always right. You know, of course, that the railroads have never taken this position. I have known cases where in securing refunds of over charges or of damages, the notary public fees equalled the amount of the bill, for the claims have been returned and re-returned, with new notary public fees required for every additional inquiry. Railroads have largely taken for granted, and this is the spirit of most railroad work, from the boy in the office all the way up, that the customer is wrong and the railroad is right. You can never win the public sentiment of this country on that basis.

"You will please pardon me for taking up so much of your time for this lengthy presentation of that side of the public's rights that its sentiments should be regarded, because I know I am speaking the truth, which needs to be adequately and thoroughly understood by every railroad man from the head official down to the last office boy. I could give you many cases in my own experience where railroad employes, not on one road, but on many, employes in the office and employes on the road, have assumed a lordly air of indifference to the public, not merely of rudeness and discourtesy, but of downright insults which I have seen to others as well as to myself. And these things prevailed long before the war. War conditions somewhat intensified them, but the railroad people have not radically changed this situation yet."

A RAILROAD PRESIDENT'S VIEW.

MR. S. DAVIES WARFIELD, president of the Continental Trust Company, of Baltimore, and of the Seaboard Air Line Railway, in the course of a letter to the MANUFACTURERS RECORD, said:

"There is no publication that I know of anywhere and under such adverse conditions that has made such a fine success. You took up the Southern country when it was difficult to do anything with it, with all kinds of antagonism, and you have shown it to the world in its true light and in a way that I do not know any one else could have done.

"The strongest endorsement any one man could give a great work like this is the fact that your editorial comment expresses a real purpose or views, without fear and without counting the cost of the expression of such views.

"It is not possible under these conditions that every one will agree with those views; in fact, it is the strongest endorsement of the value of them that they do not."

When busy men like Mr. Warfield and Mr. Schwab and other great leaders of the country find opportunity to study the MANUFACTURERS RECORD carefully, it seems a little amusing sometimes to find men of somewhat smaller calibre, or certainly of very much less business activity, who say that they cannot find time to read it.

The tribute which Mr. Warfield pays to the work of the MANUFACTURERS RECORD is in harmony with that of thousands of others who have followed its work in behalf of the development of the country. He is quite right in saying that we could not expect, taking the vigorous editorial position we constantly do on important questions, to find everybody agreeing with our views. That is neither to be expected nor to be desired, for out of diversity of thought and the friction of one mind against another there comes the highest national development.

The MANUFACTURERS RECORD has its own convictions. It speaks them without fear or favor. It is glad to know that its views are in harmony with those of so many millions of people in this country. But it does not expect that everything which appears in its columns will meet with the favor of all of its readers. All we ask of them is confidence in our honesty and integrity of conviction, and in our willingness to express that conviction and an honest intelligent study of what we say.

A GREAT BANKER'S VIEW ON EXCHANGE.

The American Bankers Association.

5 Nassau Street, New York.

CHAS. DEB. CLAIBORNE, Chairman
Committee on Exchange.

Editor Manufacturers Record:

In reply to your letter of February 2, 1922 in the matter of McFadden's Bill, will say as follows:

The Bill will no doubt put an end to par collections and will likewise curtail the Collection Department of the Federal Reserve to a substantial extent. I fear, however, that the effect of the passage of such a Bill, if passed as proposed, will precipitate unnecessary discussion between the city bank and country bank.

The whole effect of this bill as drawn, while it appears at first sight a solution of the matter, places such a penalty upon city correspondents who attempt to collect for their country banks, that the city banks will have to re-establish their own collecting medium; it being impossible to have charged against them the amount which the country bank will charge to the Federal Reserve for remitting, plus the additional charge at a rate not less than the rate of exchange charged the Federal Reserve Bank.

That the Federal Reserve should charge any exchange incurred in the collection of a check or draft is perfectly right and fair. That they should however attempt to impose a penalty, is plainly an attack on banks that will not remit at par.

If it is honestly and sincerely the purpose of merely having the Federal Reserve reimburse itself for any remittance charge, why not stop there? Why the additional charge?

As an actual fact, we need no amendment to the Federal Reserve Act, in order that the Federal Reserve Banks may collect exchange charges incurred in the collection of drafts. The present prohibition is merely against such charges being made against the Federal Reserve Banks, but as those banks merely act as agents, and they so notify you before taking your checks for collection, any charge made by any remitting bank is merely a charge against the Federal Reserve Bank as agent, to be charged to their principal, and therefore not against them. I defy the Federal Reserve Board or any one else to deny this.

The position of the bank that refuses to remit at par is perfectly simple, fair and legal. It demands the right to a reasonable charge for a service. This proposition is too elementary to be defeated morally or legally, and the Federal Reserve is only "butting its head against a stone wall," in its attempt to have the courts of the country reverse the jurisprudence of years. The Supreme Court of this country and the supreme courts of our various states are committed to the maxim. "A reasonable charge for a reasonable service"—and this fight will continue until the Federal Reserve bows to that inevitable conclusion.

Summing up the bill—it simply means this.

First—The country banks will have to remit at par or submit to a penalty of the additional charge, when their items are collected through their city correspondents; or

Second—The city correspondents will have to clear the

items of their country banks through other channels than the Federal Reserve; or

Third—The country bank will have to establish its own Collection department.

All of which only continues the attempt of the Federal Reserve to dominate and control the entire banking system of the country, member banks as well as non-members. Not satisfied with having compelled national banks to join, whose charters had not yet expired at the time of the adoption of the Federal Reserve Act, these Kaisers now attempt to regulate state chartered institutions by means and methods condemned by the state courts and the Supreme Court of the United States.

CHAS. DEB. CLAIBORNE,

Chairman, Committee of Five.

New Orleans, La., Feb. 7, 1922.

The importance of these statements can better be appreciated when it is remembered that Mr. Claiborne is vice-president of the Whitney-Central National Bank of New Orleans, the largest national bank in assets in the South. Remember, this is not what the MANUFACTURERS RECORD says, but what the chairman of the committee on exchange of the American Bankers Association, himself one of the foremost national bank men of the country, says of the situation.

NO CLASS, BUT ALL INTERESTS SHOULD BE REPRESENTED.

The Federal Reserve system should know no class, interest or political party. If one interest finds it advisable to secure representation to favor it, then others are entitled to the same. The same argument that would sent a farmer on the banking board would also apply to union labor, or the producers and refiners of oil.

Class legislation is something to be jealously guarded against. The constitutions of many states expressly prohibit it. Legislation is good only when it is meant for the public welfare. That never can be obtained by efforts to secure from the masses favors and privileges for a few.—Wall St. Journal.

Then of course the Wall St. Journal will admit that bankers as a class should not be represented, but the law requires that at least two bankers be on the Board. This is directly contrary to the Journal's doctrine; or does the Journal think banking is so sacrosanct that it is above all classes and is therefore not a class to itself? If bankers as bankers are represented, then why not industrial and railroad and commercial and agricultural interests? The banker produces nothing, the others produce everything that is produced, on the financing of which the bankers always take their toll.

WHY WAIT?

OUR attention has been called to the fact that there is a provision in the Reserve Act that members of the Board who serve out their time can accept positions in member banks whereas if they do not serve out their full terms they may have to wait two years before they can accept such jobs.

In the light of this it has been suggested that Governor Harding will probably be allowed to serve out his time which expires in August, in order that he may accept from some of the banks in New York, whom the Federal Reserve System has served so satisfactorily, a good fat job.

But just why the country should be made to suffer in order that Governor Harding may not have to wait for two years before he can accept a job with a member bank in New York we are unable to see.

DEPRESSION NEED NOT CONTINUE.

IT is a favorable pastime of professional economists to draw charts showing the course of prices over past eras, and these gentlemen delight in demonstrating by this means that during great wars prices have climbed to new heights and that after great wars they have declined more or less rapidly. Therefore, argue these economists, it is evident that there is a natural law which controlled and made necessary the appalling depression of recent months.

It is amazing how much information and inability to think some men can acquire. Imagine what laughter would greet a physician who solemnly produced charts to show what the course of yellow fever had been in the recurrent epidemics of the nineteenth century and predicted on them a prophecy that during the next ten years so many thousands of good Americans would inevitably be victims of the yellow scourge!

Science has taught us how to defeat yellow fever. Charts of economic disaster should be valuable only as demonstrating the necessity of formulating measures to prevent such disasters; instead, they are offered as proof why we should be quiescent under grave calamity. We have nothing but contempt for the intelligence of men who take the view of inevitability. Human experience in all other directions is to the contrary. Financiers who preach the recurrence of panics are mere creatures of text books and habit. No one of them would ever have invented an internal combustion engine or have devised a reclamation project.

We have no faith in those who desert civilization and barter the future for their present gain. May we be saved from those who argue that prosperity is at the end of a pendulum and must swing into ruin. The thermometer does not control the weather; the weather controls the thermometer. Trade is the thermometer to which weather is the human intelligence. If the mercury freezes, it is not nature that is responsible, but the intellectual incapacity or laziness of the gentlemen in control of affairs.

BEGGARLY 81 PER CENT EARNINGS FOR RICHMOND FEDERAL RESERVE BANK.

WE have for some time been very much afraid that the Federal Reserve Bank of Richmond needed more efficient management, and now we are quite certain that this is the case, because during the past year it was only able to earn a beggarly 81 per cent on its capital. Any Federal Reserve Bank that is so badly operated as to earn such a small sum as this, in the light of the earnings that the Federal Reserve Banks have been making for several years, is falling far short of the standard set by this system for profiteering in earnings, and for creating an influence throughout the entire banking fraternity to try to match in the earnings of the individual banks—and yet that is well nigh impossible—the earnings of the Federal Reserve System, a system which it was never intended should be a money making institution.

Nevertheless, when the Richmond Bank falls so far short of its opportunities with a measly 81 per cent earnings it is time that its management should be overhauled.

VIEWS OF CONGRESSMAN KING.

House of Representatives.
Committee on Banking and Currency.

Washington, January 23.

Editor Manufacturers Record:

I have read with a great deal of pleasure your interview from the Daytona News. You and your splendid organization deserve great credit for the battle you are making in re the Federal Reserve Board and I wish you every success.

With kindest wishes, I am,

Very truly yours,

EDWARD J. KING.

FROZEN TRANSPORTATION

THE Federal Reserve Board has talked a lot about frozen credit, although denying that it was itself the iceberg. Who will take the responsibility for frozen transportation? Some hundreds of millions of railroad capital is lying idle, a dead loss, because there is no traffic offering to justify use of the equipment. Who killed the business? Who froze the cars to the tracks? The Federal Reserve Board seems to have been able to liquify considerable frozen credit, the number of bankruptcies for January having broken all records. Has it any plan for liquidating frozen transportation and putting in motion the more than half a million freight cars now idle on the tracks?

AND MILLIONS FEEL THE SAME WAY.

Farmers Atlantic Bank

Ahoskie, N. C., January 16, 1922.

Editor Manufacturers Record:

It gives the writer great pleasure to enclose herewith check for \$2.00 to cover the subscription on the RECORD to April 6th.

I want to say in behalf of the MANUFACTURERS RECORD and the Editor that just as long as I can find the subscription price I shall always have it coming to this bank.

Keep up the fight against the policies of the Federal Reserve Bank in their war-fare against the State Banks; you have thousands on your side and if everybody felt as I have felt toward them we would take up arms and start.

CASHIER.

LET OTHER COLLEGES DO THE SAME.

Georgia Military College

Milledgeville, Georgia, January 12.

Editor Manufacturers Record:

Enclosed find check for \$1.50. Please send me five copies of Blue Book of Southern Progress.

I read your RECORD with the greatest delight and profit. To me you have absolutely hit the nail on the head as to our financial condition.

KYLE T. ALFRIEND, President.

Every college in the country ought to order enough copies of the Blue Book of Southern Progress to provide one for every teacher, so that they may rightly interpret to their students the business of the South past, present and to come.

FOR THE GOOD OF THE RISING GENERATION.

Victoria, Texas, January 23.

Editor Manufacturers Record:

You find herein sixty cents. Please send me two copies of your "Blue Book of Southern Progress" about to be issued.

I have two daughters who teach and they will use this history of their Southland in more than one class. We often feel the need of just such a quick reference book and thank you for this work and putting the price so we can have two copies.

MRS. W. B. DU PRE.

We trust that every other teacher in the South will follow this good example.

There seems to be considerable discussion as to where and how to get the money to pay the Soldiers' Bonus. By way of suggestion, a good part of it might be taken from the profits made by the Government in purchasing its own Liberty Bonds at 80-odd cents on the dollar.

The Treasury building in Washington caught fire the other day. Spontaneous combustion superinduced by national indignation, no doubt. Better give the Federal Reserve Board its own fireproof structure at the capital.

Signs of Prosperity South.

Newport News Shipbuilding Gets Leviathan Contract.

The Newport News Shipbuilding & Dry Dock Co., of Newport News, Va., has been awarded the contract for reconditioning the Leviathan and converting it into an oil burner. The entire work will involve an expenditure of more than \$8,000,000, and the shipyard will receive more than \$6,000,000 of this amount. The ship will be moved from New York to Newport News under her own steam, and from 1,500 to 2,000 men will be given employment. More than a year will be required to complete the work outlined.

Gimbel Bros., of New York have been awarded the contract for equipment of the stewards' department and for a library, at a cost of about \$551,000. Approximately \$1,357,000 will be expended in moving the ship to the contractors' yard, and for insurance covering removal, new anchors and chains, moving of a ship to a dry dock, dry docking, trial ship and maintenance and guarding of ship during reconditioning. Following the work at the Newport yards it is planned to move the vessel to the Boston Navy yard where it will be drydocked and scraped and painted, at a cost of nearly \$200,000.

\$500,000 to Be Expended in Alabama Drainage District.

Montgomery, Ala., February 18—[Special.]—The Courts of Probate for Fayette and Lamar counties have confirmed the report for Lamar County Drainage District No. 1, and it is expected that the Board of Drainage Commissioners will make every effort to get actual construction under way soon, according to Guy A. Hart, U. S. Drainage Engineer. It is planned to issue \$500,000 in bonds to cover the cost of the work which will include the excavation of approximately 2,500,000 cubic yards. Floating dredges will be used for the main drain and drag lines for the lateral ditches. Fifteen bridges will also be erected. If three dredges are used two years will be required to complete the project.

The Southern Railway has about 20 miles of track in the district, and has approved the plans and offered to co-operate, as has also the Columbus Lumber Co., Columbus, Miss., which owns 2200 acres of land in the section.

W. W. Suddeth of Kennedy, Ala., is president of the Board of Drainage Commissioners, and Wm. V. Monroe, of Fayette, Ala., the attorney.

Begin Drilling for Gas and Oil Near New Orleans.

New Orleans, La., February 18—[Special.]—Drilling for gas and oil has begun in St. Bernard Parish, which adjoins New Orleans. Four local men, George Conrad, Frank Blanc, Gustave Llamblas and E. L. Chappuis, are putting up the money. They have 3000 acres of land under lease in the vicinity of Shell Beach and Alluvial City. The first well will be after gas, the hope being to develop an important field near New Orleans. The well is expected to be brought in by the end of March. If this well is a success, the next drilling will be for oil.

Extensive Water Works Improvements at Raleigh.

Raleigh, N. C., February 18—[Special.]—T. B. Eldridge, mayor of Raleigh, has announced that in the near future the city will begin construction of an impounding reservoir of 400,000,000 gallons capacity, the erection of a steel tank of 600,000 gallons capacity and the construction of a stave pipe line of about one mile in length. Bonds will be sold to cover the cost of improvements.

\$4,000,000 in New Incorporations.

Oklahoma City, Okla., February 18—[Special.]—Charters were issued last month to 82 corporations with capital stock totaling \$4,191,000, and of this number 20 charters were for oil, gas and allied companies with a capitalization of \$2,125,000. Mercantile corporations, manufacturing concerns, lumber companies and light and power plants ranked in the order named.

Building materials already show signs of vigorous revival, according to P. B. Stone of the Continental Asphalt and Petroleum Co. During seven months ending February 1 this firm shipped 2700 cars of building material of which 400 cars were asphalt. Record-breaking shipments were made during January, they numbered 470 cars, including 62 cars of asphalt.

Perfecting Plans for \$2,250,000 Masonic Temple.

New Orleans, La., February 18—[Special.]—Plans have been approved for a new Masonic Temple by the Grand Lodge. It will be one of the largest in the country, necessitating the expenditure of approximately \$2,250,000. Plans have been prepared by Sam. Stone, Jr., architect of this city. Ira W. Sylvester, of Alexandria, is chairman of a committee working on contracts and other details. The building will be divided into a commercial section for use as office buildings and another section for use of lodges, banquet halls, auditoriums, etc. Eight elevators will be installed. It is planned to get the work under way within the next six months.

\$1,000,000 City Improvements Planned for Miami.

Miami, Fla., February 20—[Special.]—Extensive improvements involving the expenditure of more than \$1,000,000 are planned by this city, according to Charles W. Murray, Director of Public Service and Welfare. Extensions and improvements to the sewer system will cost approximately \$280,000, while a disposal plant costing \$100,000 will be erected. It is planned to expend in addition \$400,000 for wharves and slips, \$300,000 for paving, \$50,000 for sidewalks and \$160,000 for bridges.

\$20,000,000 in Exports from Galveston.

Galveston, Tex., February 20—[Special.]—During last month exports for this port approximated \$20,254,000 while imports amounted to about \$1,500,000. The major import was oil from Mexico. England continues to lead the buyers, with an export valuation of about \$4,000,000; Germany is second with \$3,980,000 purchases, and Spain, France and Japan stood in the order named. A total of 38 vessels took coastwise cargoes.

Hydro-Electric Development to Cost Several Millions.

Lamar, Mo., February 18—[Special.]—Plans are being discussed for the construction of a big hydro electric plant near Linn Creek, Camden county, by the Osage Power Development Co. According to W. R. Banks, Mgr., the entire project will involve an expenditure of several million dollars and provide for development of from 30,000 to 40,000 horse power.

64,000 Tons of Sulphur Shipped in Month.

Galveston, Tex., February 20—[Special.]—During the month of January approximately 64,000 tons of crude sulphur passed through the port of Texas City in eleven vessels. Besides ports on the Atlantic and Pacific Coast this sulphur was shipped to the United Kingdom, Australia, Germany, Spain and British Columbia.

Building Construction in South Shows Increase in January of 85 Per Cent Over Corresponding Month Last Year—This Compares with 50 Per Cent Increase Throughout Country.

January construction in sixteen Southern states as indicated in reports from building inspectors in 65 representative cities and towns was more than 85 per cent greater in valuation than in the corresponding month last year, according to a compilation just completed by the MANUFACTURERS RECORD. Not only did last month show a big increase over January, 1921, but a gain of slightly more than 20 per cent in permit valuation over the preceding month is indicated by a comparison of permits issued in the same cities. These totaled \$18,754,385 for December and \$22,977,270 for January. In the first month of 1921, permit valuations in 65 cities amounted to \$12,328,350 compared with \$22,977,270 for January, 1922.

Taking the country as a whole January construction activity was approximately 50 per cent greater than during the same month last year, while the South showed an 85 per cent greater valuation. Fall construction in the South was at a high level, the normal seasonal decline being felt only in a slight measure, far less, indeed, than in other sections.

Seven Southern cities had a permit valuation of over \$1,000,000 each last month as follows: Washington, \$2,245,897; Atlanta, \$1,045,405; Baltimore, \$3,246,120; St. Louis, \$1,119,530; Oklahoma City, \$1,095,786; Houston, \$1,072,176; Dallas, \$2,291,791.

Construction activity in January was widespread in territory and diversified in classification of structures. Residential construction is a feature, with business buildings, industrial plants, public utilities and public works maintaining a high level.

Herewith are the comparative tables showing the progress made by different cities.

BUILDING PERMITS ISSUED.

City and State.	December, 1921		January, 1921		January, 1922	
	No.	Est. Cost.	No.	Est. Cost.	No.	Est. Cost.
Alabama:						
Birmingham ..	340	\$360,973	318	\$280,533	271	\$359,699
Montgomery ..	93	11,787	118	23,706	60	23,602
Arkansas:						
Little Rock ...	140	454,587	150	176,170	140	328,982
Fort Smith ...	48	77,708	24	28,010	46	54,142
Pine Bluff ...	30	72,750	20	23,625	26	31,150
District of Columbia:						
Washington ...	552	2,382,617	333	974,085	508	2,245,897
Florida:						
Jacksonville ...	271	343,629	227	481,202	275	481,202
Miami ...	152	616,400	221	229,700	189	199,200
Orlando ...	87	131,896	...	68,497	70	833,620
Pensacola ...	52	60,212	95	58,600	67	18,837
Tampa ...	232	182,553	96	97,973	258	200,866
W. Palm Beach ..	88	100,675	39	89,795	75	83,675
Palm Beach ...	5	37,190	...	15,800	...	...
St. Petersburg ...	...	...	...	349,550	117	172,850
Georgia:						
Atlanta ...	236	570,556	...	586,900	270	1,045,405
Augusta ...	162	83,134	114	76,540	...	...
Columbus ...	15	8,937	...	86,550	20	44,630
Macon ...	64	38,525	44	21,698	81	36,363
Savannah ...	56	87,225	42	62,075	38	134,375
Brunswick ...	...	...	19	5,660	22	9,495
Kentucky:						
Louisville ...	165	569,200	106	611,500	158	466,750
Lexington ...	59	238,695	18	59,595	42	66,667
Covington ...	23	16,400	25	21,300	45	82,900
Louisiana:						
New Orleans ...	165	664,700	119	243,361	215	570,875
Shreveport ...	...	213,545	211	249,400	187	238,295
Lake Charles ...	20	21,975	9	7,200	27	25,617
Maryland:						
Baltimore ...	866	1,153,080	214	1,737,460	903	3,246,120
Cumberland ...	13	17,852	12	14,145	121	11,175
Frederick ...	1	600,000	...	...	2	900
Mississippi:						
Meridian ...	...	...	...	...	9	10,300
Jackson ...	...	...	12	10,054	...	...
Missouri:						
Kansas City ...	281	\$926,900	166	\$1,672,200	...	...
Springfield ...	32	47,125	35	26,665	28	\$26,925
St. Joseph ...	59	54,000	...	20,235	44	34,145
St. Louis ...	592	979,720	444	333,025	531	1,119,530
North Carolina:						
Asheville ...	...	121,535	42	63,810	43	355,006
Durham ...	39	534,187	9	25,582	20	57,505

City and State.	December, 1921		January, 1921		January, 1922	
	No.	Est. Cost.	No.	Est. Cost.	No.	Est. Cost.
High Point ..	28	76,343	3	25,300	29	71,985
Charlotte ...	33	305,400	33	127,825	31	302,200
Wilmington ...	14	15,550	24	15,550	8	71,000
Winston-Salem ..	98	703,435	43	27,225	62	58,005
Greensboro ...	28	35,090	...	54,325	24	146,375
Oklahoma:						
Oklahoma City ..	153	377,841	129	414,760	125	1,095,786
Tulsa ...	83	552,300	127	736,400	148	542,400
Muskogee ...	33	66,785	11	19,500	31	119,700
Okmulgee ...	28	58,450	36	68,000	9	30,950
Shawnee ...	...	18,770	...	7,470	...	...
Ardmore ...	20	43,300	15	16,750	...	...
South Carolina:						
Charleston ...	33	54,075	29	46,925	47	92,741
Columbia ...	39	69,494	100	92,925	70	109,759
Greenville ...	34	24,230	52	69,875	35	106,865
Spartanburg ...	58	81,630	25	34,550	50	25,150
Tennessee:						
Knoxville ...	84	173,332	...	62,698	107	162,594
Chattanooga ...	148	233,835	128	416,139	...	...
Memphis ...	279	1,245,120	176	368,109	293	579,200
Nashville ...	199	149,055	...	86,626	232	312,872
Texas:						
Houston ...	406	1,103,226	409	393,364	510	1,072,176
Galveston ...	345	178,473	390	62,826	260	212,990
El Paso ...	87	96,449	96	115,612	80	145,924
Dallas ...	228	597,405	275	589,808	294	2,291,791
Fort Worth ...	119	163,968	132	316,760	166	385,139
Beaumont ...	29	77,615	26	101,719	31	74,580
Austin ...	31	94,100	28	15,840	24	39,490
Waco ...	...	57,200	...	40,851	...	78,455
Amarillo ...	35	110,700	20	37,700	24	68,000
Port Arthur ...	67	62,437	120	164,186	73	29,031
San Antonio ...	282	501,770	237	236,615	312	490,784
Abilene ...	17	96,590	...	...	...	...
Virginia:						
Richmond ...	163	\$369,226	93	\$322,495	114	\$437,206
Norfolk ...	60	128,848	54	119,270	30	85,812
Lynchburg ...	13	8,650	...	227,650	12	173,906
Roanoke ...	77	87,440	39	45,570	71	245,340
West Virginia:						
Charleston ...	51	48,545	39	46,965	81	169,886
Huntington ...	77	137,355	69	128,350	72	137,295
Wheeling ...	29	123,015	38	19,740	33	317,159
Bluefield ...	6	605,675	5	40,500	20	98,925

\$450,000 Contract Let for Church Home.

Contract for the erection of a service building for the Church Home and Infirmary, Baltimore, has been awarded Frairie Bros. & Haigley, and work will be started at once. The building will cost about \$450,000, being eight stories high. Only recently the same firm received the contract for the \$900,000 building of the Union Memorial Hospital to be erected in the Guilford section.

The new structure for the Church Home hospital will contain a kitchen, laundry, dining room for employees, operating rooms and quarters for patients, comprising one of the most complete hospital units of its kind in the country.

To Begin Erection of Light and Power Plant.

New Orleans, La., February 18—[Special.]—The first unit of the electric light and power plant to be erected under a franchise granted Harry K. Johnson will be ready within four months, it has just been announced. It will be located on a site in Carrollton. The Citizens' Light & Power Co., with a capital of \$2,000,000 has been organized to erect the plant and a large part of the equipment has already been purchased.

Will Ask Bids on Ditch and Channel Improvements.

Little Rock, Ark., February 20—[Special.]—The Eudora Western Drainage District, Eudora, Ark., will call for bids shortly for the construction of 30 miles of open ditches and 10 miles of channel improvement. A total excavation approximating 4,500,000 cubic yards will be necessary. Baxter Engineering Co., of this city are the engineers.

Knoxville Building Plans Extensive.

Knoxville, Tenn., February 18—[Special.]—The construction of more than 200 dwellings costing approximately \$800,000 is now projected here in addition to the erection of office and business buildings, garages, warehouses, churches and industrial plants upon which work is getting under way. Activity in all building lines is maintaining a high level.

James J. Hill and Edward H. Harriman on the Exchanges With the Orient and as Silver Advocates.

[The views of the two great world leaders in railroad and financial affairs, James J. Hill and Edward H. Harriman, as given in the following interesting letter to the Manufacturers Record by Mr. Moreton Frewen of England, will command especial attention at the present time when all thoughtful people are trying to put aside preconceived notions about finance and banking, and get down to a genuine study of what must be done to bring about prosperity to all the world. Mr. Frewen, as the foremost writer in the world on Oriental exchange in connection with the silver question for the last thirty years or more, in a recent letter to the Manufacturers Record, referring to the deflation carried on by the Federal Reserve Board of this country, said: "This deflation has well nigh bankrupted the universe," and he added that there was constant wonder as to when this "gun play" against business would cease.

While Mr. Frewen thus fully recognizes the tremendous world-wide chaos created by deflation, so vividly described in the Manufacturers Record a few weeks ago by Prof. Cassel, he also seeks to point out that still larger interest, which is not controlled by temporary management of the Federal Reserve System through inflation or deflation, the great age-old problem of exchanges between the Occidental and the Oriental worlds, in connection with the silver question. The statements made to him (and quoted in the following letter) By Mr. James J. Hill and Mr. Edward H. Harriman, place this question far above the narrow-minded discussions which have often taken place in this country, for financial people who are wedded to things as they are cannot possibly question the ability of Mr. Hill and Mr. Harriman to take a world view of financial problems.—Editor Manufacturers Record.]

By MORETON FREWEN, Brede Place, Sussex, England.

I am not in the smallest degree attempting to detract from the value of Professor Cassel's excellent appreciation of the frightful and world-wide disaster of "Deflation" if I ask you to consider whether that is of two the *larger* factor which has been at work during the last two years in destroying the prices of all products of all labor and in confiscating that entire margin of profit in industry which should properly belong to debtors and taxpayers. That the violent contraction of credit is *largely* responsible for the present unemployment I have no doubt, but it is still more certain, I believe, that the wreck of the exchanges in all that region which pivots on the Pacific ocean is the causa tetterima of the world's woe and I beg of you to give that huge question your consideration, for it is a problem which Professor Cassel seems to have left severely alone.

I may say that in the past three weeks I have had a number of letters from America which refer the disaster of the last two years to the unprecedented collapse in the exchanges between, let us say, New York, Chicago and San Francisco, on the one hand and Shanghai, Canton and Bombay on the other, my correspondents usually inquiring where they can read any recent and short literature dealing with the subject. To these students of a complicated subject, albeit the egoism of my reply, I venture to ask consideration for two short papers of my own, everywhere accessible and which are in the "Nineteenth Century Review", the one for November, 1913, the other for November, 1917. (1) "The Indian Commission and Silver" and (2) "Silver in the New Era".

It is well known to their friends that for the last few years of their lives both Mr. James J. Hill and Mr. Edward H. Harriman (who as history relates were sometimes not in entire agreement!) had become "ardent silver-men", as Mr. Harriman described himself to the writer in the last talk we ever had. Mr. Hill had sent me a speech of my own cut out of a San Francisco paper, in which he had marked the following passages and which letter is open on my table as I write:

At San Francisco I had said: "I take, for instance, good dressed lumber costing the Chinese buyer \$25 per thousand in Portland or Seattle—say, \$30 delivered in Shanghai. In 1907 this lumber cost the buyer delivered in Shanghai 33 taels per thousand feet while today at the same gold price (\$30) its cost is 48 taels, so that the fall in exchange on Shanghai makes just the difference there between your lumber on the free list in China in 1907 and your lumber now paying a 45 per cent specific duty—a duty of 15 taels per thousand feet. The same argument holds good in the

case of your exports of wheat, steel rails, flour and cotton goods.

"Mr. Robert Dollar told me that on his recent visit to the Hankow rolling mills he met there Mr. Watson, an inspector of the United States Steel Corporation and in going through the works he had the advantage of Mr. Watson's judgment and experience. Mr. Watson considers that the Hankow mill is for efficiency quite up to the American standard. He told Mr. Dollar that the rails were as good as possible and that the hands required were not ten per cent in excess of those employed in a Pittsburgh mill.

"Now, when I recall the amazing developments I have seen in the Orient during the past thirty years; how great modern industrial Bombay has sprung into existence; the partition of our jute and leather industries; the murderous competition of the Malay states in tin and other minerals—am I not justified in describing as a madness the passive mood in which we today contemplate the wholesale removal of our steel and iron and coal industries to China? Look at the remittances of every Chinaman working on this continent who sends his savings home! Two years since (1907) if he remitted five gold dollars he remitted five and a half taels; today that sum remits for him eight taels. It is safe to say that had you not passed a Chinese Exclusion Act the present rates of exchange would have brought a very exodus of Mongolians to these shores, to cut your rate of wages and to return to China with the proceeds. But of what use is it to exclude the pigtail while you admit the "pig"—while you admit not merely free pig iron but pig iron bounty fed by the recent fall in silver?"

Mr. Hill asked me in this letter to visit him at St. Paul on my road home, which I did. I can recall his very characteristic remark, "why, if that, as you state it, is the Silver Question, a 'corner boy' can understand it and yet apparently your members of Parliament cannot?" To which I found no better rejoinder than a weak 'tu quoque'. I said, "and what about your members of Congress?" But he authorized me to cable the following short "interview" to the London Times:

"We must await the proposals of the Monetary Commission at Washington. The Silver Problem is full of difficulty and I wish it were possible to ignore it. Our Consuls in Asia warn us, however, that at the present rates of silver exchange Asia has ceased to import American wheat, lumber, or flour and that the Shanghai merchant who fifteen months since bought a sovereign with 5 taels must now pay nearly eight taels. The result is disaster—he no longer buys."

A few months later (January 17, 1910) we find Mr. Hill writing to his friend Earl Grey, the Governor General of Canada, a letter, which I have:

"Not only must our exports to the Orient tend to decrease

rather than increase, but it will presently become a question whether the markets of the world can be saved from a competition stimulated by exchange conditions that we are unable to control. Undoubtedly the subject needs as much attention as is being bestowed on the general rise of prices with which it is connected; but it is not understood or even mentioned in the discussions of our times; but it will presently force itself unpleasantly upon the notice of other countries, not only in their changing trade balances with the Orient but in the appearance in their home markets of a competition with which they are unprepared to deal."

A wise and weighty utterance! It should be remembered that shortly before (having been asked to give evidence before the National Monetary Commission at Washington), I had received, for the purposes of my evidence, a letter from Tong Shoa Yi, who was a little later the first Prime Minister of the Chinese Republic, in which Tong quite endorses Mr. Hill—he writes:

"In China such fluctuations in exchange as those of last year are of course very troublesome for our importing merchants, still no doubt last year's fall in silver greatly assists our mills and other manufacturing industries, which might be damaged by the competition of imported foreign goods if the exchange rose. Thus the fall in exchange is even as an increasing tariff, but unlike a tariff, our exports are not thereby reduced but are, so to speak, subsidized."

Mr. Edward Harriman's mind was perhaps an even keener instrument than Mr. Hill's. He had recently returned from China, where he had been confronted everywhere with the competition built up by falling exchanges; added to this he was then employing, I think he told me, 30,000 silver paid Indians in building railways—the Mazatlan extensions—in Mexico, their wages paid in "fifty cent dollars". We were dining alone at Mr. Harriman's house in Fifth Avenue and he presently said "But what is to be done? I have not a man in my whole business connection who understands the silver question; but my neighbor at Cedar Court, Mr. Otto Kahn, could. I will talk it over with him and tell him what I think we might do."

I never saw Mr. Harriman again; he died a few months later; but Mr. Kahn tells me that the day following Mr. Harriman had come to his office. That their conversation had, however, hardly commenced before it was interrupted by a visit from Judge Lovett, so "what his idea was," said Mr. Kahn to me, "the world was never destined to know."

I think it is important at this time to leave on record where these two remarkable minds, Hill and Harriman, with great Pacific interests, stood in their last days.

Coal Supplies in the United States.

At the beginning of this year the total quantity of soft coal in commercial storage was approximately 47,000,000 tons. While this is much above the low mark of June, 1920, it is 25 per cent less than the maximum of 63,000,000 tons reached on the day of the Armistice, states a report prepared jointly by the Census Bureau and the Geological Survey. At the present rate of consumption this reserve would probably last about 40 days. But as stocks are never equally divided, if delivery of coal is interrupted, symptoms of a shortage develop in a few days, states the report.

Production of bituminous coal for the present coal year is behind recent years. The output from April 1, 1921 to date was 340,747,000 tons. Therefore, production for 1921-22 is about 118,000,000 tons behind 1920-21, 56,000,000 tons behind 1919-1920, and 142,000,000 tons less than 1918-1919. The subnormal production of soft coal of the past twelve months is explained by subnormal consumption. Production in 1921 was 27 per cent below 1920; exports 40 per cent less; and domestic consumption 24 per cent less.

In sharp contrast to the bituminous industry, the anthracite mines, states the report, continued in active operation up to late November. The total production of hard coal for 1921, estimated at 87,500,000 tons, about equalled the

89,100,000 tons produced in 1920. Complete reports are expected to show that the decrease was confined to the steam sizes, and that the production of domestic sizes actually increased.

The last report on anthracite stocks of coal held in yards was November 1. The total on hand at that time was 4,487,000 tons, of which 1,768,000 tons was domestic sizes and 2,719,000 tons steam size. Statistics of the quantity on hand January 1 can not be presented because reports are lacking from certain producers. The reports that have been received indicate a slight increase in the domestic and a slight decrease in the steam sizes.

Valuable Coal Deposits in North Carolina Outlined by Geological Survey.

Charlotte, N. C., February 18.—[Special.]—The coal mining industry of North Carolina has recently developed signs of recovery, and the use of coal for railroad purposes in Chatham, Lee and Moore counties, once largely supplied by the Cumnock mine, may again be resumed on a large scale.

The United States Geological Survey has just issued detailed information regarding the coal deposits in the State, and this report may do much to stimulate production. In the Deep River coal field a tract of land estimated to contain 15,000,000 tons of steam and coking coal, has been outlined by mines and drill holes, and it is estimated that in the remainder of the field there is available at depths not exceeding 1500 feet approximately 60,000,000 tons. These figures are the result of a recent examination made by M. R. Campbell. He found that the northwestern side of Triassic basin in Lee, Chatham and Moore counties is underlain by a coal bed of workable thickness and quality, ranging from 40 to 50 inches along the outcrop for a distance of 12 miles into the basin from the outcrop for a distance of 1½ and 3½ miles where it passes below a depth of 1500 feet.

The bed is regular in thickness and composition, containing no partings. The roof is a thick bed of hard sandstone underlain by two to ten inches of "draw slate". The floor is equally hard being composed of "black band", or carbonate of iron.

The coal bed carries very little water so that even in the Cumnock mine which lies close to Deep River and below its level, the rooms and entries are so dry that it is necessary to sprinkle them to keep down the dust. Altogether the mining conditions are reported as excellent.

The coal is moderately low in ash, probably not averaging more than 8 per cent, and as shown where it is cut by dikes, will make good coke. It would have an excellent domestic fuel value if its cleavage were not so highly developed that when it is mined most of it breaks up into small pieces, only a small percentage consisting of lump coal.

Southern Sweet Potatoes Sent to England.

Southern sweet potatoes, served in one of the appetizing dishes made famous by Dixie housewives, will soon be on the tables of King George and Premier Lloyd-George of Great Britain, specially prepared packages for them having been among a shipment of 2000 pounds, forwarded from Charleston to Liverpool on the Steamer Wekika for the purpose of introducing in Great Britain this excellent food staple, as a result of joint efforts of the Southern Railway Co., the Carolina Company, steamship forwarding agents of Charleston; and the South Carolina Sweet Potato Association. Each five-pound carton contained a copy of a booklet recently published by the Southern Railway, showing recipes for preparing sweet potatoes. Arrangements have been made for the distribution of these packages through selected British dealers.

Remarkable Constructive Work Carried Out By a Virginia Bank With a Long Range Vision.

By A. SYLVESTER EDMONDS, University, Va.

Long range vision of a constructive business sort of the function and development of a bank as a perpetual institution has resulted in certain activities looking toward ultimate upbuilding of the section that constitutes its sphere of activity by the Peoples National Bank of Charlottesville, seat of Albemarle County, Va. Bank and community life and expansion, the officials of this bank conceive of as so wrapped up in each other that the sure means of providing for the utmost ultimate prosperity of the bank lies in fostering the best interests of the locality in which it is.

Albemarle County is a farming and orchard community primarily. The fame to which the Albemarle pippin and Winesap apples of Albemarle county have attained testifies to the substantial nature of its fruit industry. Toward fuller utilization of local potentialities in agriculture, horticulture and livestock raising the bank officials aimed their efforts when they decided two years ago to inaugurate an outside campaign of broad constructiveness.

Among the resources of the land may be numbered an ample supply of good water, a favorable climate, soil which, although in many instances exhausted by improper tillage methods, is adapted inherently to the successful raising of a wide variety of products. The resources were seen to be here in proportions justifying expectation of more rapid increase of wealth and elevation of health, educational and general living conditions than statistics and observation would testify to as matters of fact. And the people are here, predominantly of as good stock as any in America.

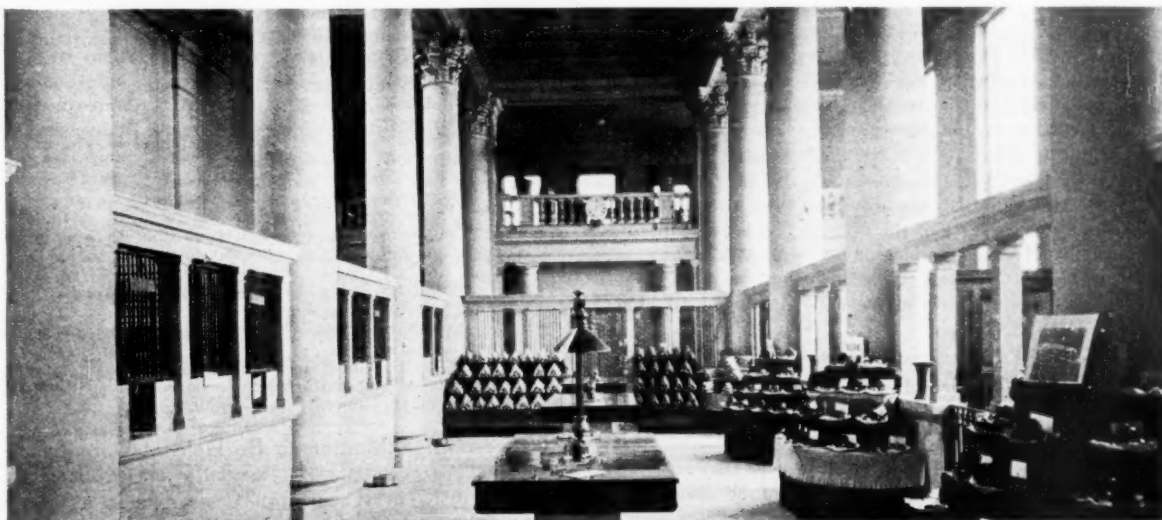
Let it be interjected here that in undertaking to develop its field of business into greater fruitfulness the bank has avoided the protrusion of its name prominently into the work. Its work is that of broad development, returns from the investment in which are not expected to be appreciable, necessarily, for some years. So, in undertaking to nurture its field, the bank has stayed in the background, acting largely as a unifying agency and a reinforcement for several distinct factors working separately to effect improvements in the rural economy of surrounding territory.

Leading these several units in the field are the County

Farm Agent S. S. Tell; County Home Demonstrator Miss Bessie Dunn; County Health Officer Dr. U. S. Keister; County Superintendent of Schools A. L. Bennett. Their duties are connected so intimately, both as to field of operation and subject matter, that, working with each more or less isolated from the others, they were sure of lost motion and duplication of effort. In overcoming this overlapping of work there has been carried on a program of about three joint community meetings a month for the past two years, throughout the county, in well planned consecutiveness and seasonableness.

At these meetings interest is intensified in the vital subjects under consideration, of obtaining larger returns from the farm, the subject of the Farm Agent; of improving the home economy through lightening drudgery by the application of methods that have been worked out by housewives and experts and tried out thoroughly, the function of the Home Demonstrator; bettering health conditions by adopting the most economical way of curing illness, by preventing it, the mission of the Health Officer; bringing closer home the practical value of education beyond the bare requirements of law, the message of the Superintendent of Schools—these matters have been correlated in the meetings, with the vividness of their presentation in lectures enhanced by illustration from an up-to-date motion picture machine supplied by the bank, and appropriate reels secured from government sources. By such means besides the economies of teamwork effected, greater force is imparted to the various branches of the work, with the result that available funds cover more extensive programs than would be feasible otherwise. Furthermore, as suggested by some of the public field agents concerned, who are cited above, the encouragement afforded by the participation in their work by eminently substantial and influential men of the community has a tangible effect in the zest and zeal injected therein and the consequent efficacy thereof.

Supplementary to the neighborhood meetings, competitive exhibits of orchard and other farm products are held in the main banking corridors. Here not only are the farmers



PARTIAL VIEW OF APPLE AND CORN COMPETITIVE DISPLAYS IN PEOPLES NATIONAL BANK, CHARLOTTESVILLE, VA. SUBSTANTIAL CASH PRIZES ARE AWARDED THE WINNERS.

already interested in scientific methods presented with the facts vindicating their study and labors in the direction of better farming, but others, slower to employ the advanced practices, are brought face to face with irrefutable evidence of the added profit that may be theirs, as it has become their neighbors, for the acceptance of opportunity open to them for cooperation on their problems, by practical experts. These points clinched at the critical moments when the individuals' bank accounts are their primary object of consideration.

With this brief sketch drawn of the educational aspect of the campaign, attention may be directed to another phase, that of solving the increasingly vexatious problem presented in the circumstance of constantly mounting taxable assessed value, along with relative decrease in production on worn out lands and on some of these run down lands, actual decrease. Under these conditions fields, so reduced in fertility that their cultivation became a losing business, lay idle for a number of years. Federal experts of the Bureau of Agriculture were consulted. After a good deal of experimenting at least one plant has been introduced and recommended that promises to be of considerable value to the section in rendering profitably workable these waste lands, while coincidentally their restoration to arability is being made by its cultivation on them.

This plant is a Japanese legume called kudzu. It enriches the soil with most of the needed elements. While in this climate it will not grow from seed, it can be planted successfully from sprouts. The stem and leaves are said to make hay in some respects superior to alfalfa, to be of sufficiently rapid growth to permit of five cuttings a year, and to be self-replenishing for a hundred years. However, if, as is likely, the owner of the land on which kudzu is growing wishes to rotate crops, he may make a profit on the plant even while eradicating it, by turning into the field hogs to be fattened. The subterranean portion of the plant consists in the main of a thick, whitish root rich in starch, that is apparently a quite delectable item of diet for pigs, which seek it out minutely, gaining weight thereon at a rate said to be well nigh astonishing. Kudzu sprouts in substantial quantities are being distributed to farmers at cost price or less.

Further, the Farm Agent and Home Demonstrator have been instructed that where either finds a boy or girl seriously anxious to undertake some venture of his own, such as utilizing non-producing land or breeding pure blooded cattle, pigs or poultry, the financial backing necessary to put the project on its feet will be available. In response to this proposition several such schemes have been promoted by ambitious boys and girls of the county. The growing favor with which this plan is meeting augurs many paying developments along the most approved modern lines by the rising citizen generation of Albemarle County.

Developmental work resembling that being done by the Charlottesville bank is being proved of value by a number of banks in different parts of the country. It is the expression of a genuine constructive idea of business. Where resources exist of which full advantage is not being taken, and where the people are at hand to utilize them, there is need of this sort of work.

Big Watermelon Year Planned.

Valdosta, Ga., February 17.—[Special.]—Upwards of 16,000 acres of watermelons will be planted in South Georgia during the coming season, it is said. Indications are that many more acres of land in this section will be added to the list before the planting season ends. Cantaloupe plantings will also be large. Careful plans for marketing and distributing the crop have been made.

Live Stock Decreased 4 Per Cent in Numbers and 41.5 Per Cent in Value in Two Years.

The total number of live stock on farms of the country January 1, 1922, was 182,931,000 compared with 190,682,000 January 1, 1920, a decrease of about 4 per cent. The total value on January 1, 1922 of the animals was \$4,779,957,000 as compared with \$8,165,194,000 on January 1, 1920, a decrease of \$3,385,237,000, or 41.5 per cent.

In total value horses decreased \$561,492,000; mules decreased \$325,689,000; milch cows decreased \$811,983,000; other cattle decreased \$892,377,000; sheep decreased \$235,427,000; and swine decreased \$558,269,000, in two years from January 1, 1920, to January 1, 1922.

The accompanying table giving revised figures for 1920 and 1921 with comparison of the number and value of the country's live stock January 1, 1922, has been issued by the Bureau of Crop Estimates, Department of Agriculture:

Farm Animals,	Numbers.	Values.
Horses, Jan. 1, 1922.....	19,099,000	\$1,346,154,000
" " 1921.....	19,208,000	1,619,423,000
" " 1920.....	19,766,000	1,907,646,000
Mules, Jan. 1, 1922.....	5,436,000	479,806,000
" " 1921.....	5,455,000	636,568,000
" " 1920.....	5,427,000	805,495,000
Milch Cows, Jan. 1, 1922.....	24,028,000	1,224,767,000
" " 1921.....	23,594,000	1,515,249,000
" " 1920.....	23,722,000	2,036,750,000
Other Cattle, Jan. 1, 1922.....	41,324,000	982,666,000
" " 1921.....	41,993,000	1,316,727,000
" " 1920.....	43,398,000	1,875,043,000
Sheep, Jan. 1, 1922.....	36,048,000	173,159,000
" " 1921.....	37,452,000	235,855,000
" " 1920.....	39,025,000	408,586,000
Swine, Jan. 1, 1922.....	56,996,000	573,405,000
" " 1921.....	56,097,000	727,380,000
" " 1920.....	59,344,000	1,131,674,000

The number not on farms, i. e., in cities and villages, is not estimated yearly, but their number in 1920 as reported by the census was: horses, 1,705,611; mules, 378,250; cattle, 2,111,928; sheep, 450,742; swine, 2,638,389.

Present Status of Cotton Farmers as Reported to American Cotton Association.

The American Cotton Association recently mailed out a questionnaire to hundreds of leading farmers, bankers and allied business interests throughout the cotton belt to secure data on the present economic situation and the financial ability of the farmers to plant cotton, use commercial fertilizers and carry on their farming operations.

Replies to these questionnaires are coming in from all sections of the cotton belt reciting practically the same conditions in each section. The consensus of opinion as reported to the association is as follows:

First. The cotton acreage for 1922 will either be decreased, or in any event, not in excess of the acreage planted in 1921, due principally to fear of the boll weevil.

Second. General and prevailing sentiment is strong for crop diversification on a more extended scale than heretofore.

Third. The farmers generally are unable to secure credits or supplies for planting an increased acreage in cotton.

Fourth. Financial resources and condition of local banks and supply merchants have improved but little in the past six months, and all credits will be most conservative.

Fifth. The debt-paying and purchasing powers of the farmers are practically at zero.

Sixth. Present conditions of farming operations are worse than in the spring of 1921.

Seventh. The purchase and use of commercial fertilizers for cotton this season will either be decreased or certainly not in excess of the amount used in 1921.

Piedmont Exhibition to Be Held at Danville.

Danville, Va., February 17.—[Special.]—The Piedmont Exhibition will be held here April 1 to 8. Exhibits will be drawn from as far south as Rock Hill, S. C., and include Lynchburg and Roanoke. Two hundred exhibits will include practically every line of endeavor.

THE IRON AND STEEL SITUATION

Steel Production Shows Continued Increase.

Pittsburgh, February 18.—[Special.]—Following the unexpected rate of increase in steel production during January, there is now an even greater increase, the new rate based on this week's production being approximately 28,000,000 gross tons a year, comparing with something like 24,000,000 tons at the end of January, and under 18,000,000 tons at the end of December.

With hand to mouth buying, for prompt shipment only, steel production is seasonal, hence an important comparison is with last autumn's demand, which brought steel production up to 23,000,000 tons a year in October and November. Already steel production is 20 per cent above that level, the higher wave of demand being attributed to the gradual improvement in fundamental industrial and commercial conditions.

Bars, shapes and plates in the general Pittsburgh district are now quotable rather at 1.40c than at 1.50c, but this does not by any means represent a decline of \$2 a ton in the week. Instead, with 1.50c the regular asking price for more than two months, there has been a constant lowering of the tonnage necessary to make an order go at a concession, so that now very moderate sized orders go at 1.40c while a couple months ago it required a large order to draw such a price. The 1.50c price is still asked on small lots, including carloads. Departures from Pittsburgh basing are more common in the east than a few weeks ago. Months ago Chicago got away from Pittsburgh basing, and now presents a market of 1.55c to 1.60c, Chicago, on these products.

Last week's rumor that a formal reduction in nails from \$2.50 to \$2.25 was about to be made has not been verified. The market is the same as for several weeks past, \$2.50 to ordinary buyers and \$2.40 to the largest distributors.

Sheets remain very firm at 2.25c for blue annealed, except the heavier gauges, 3.00c for black and \$4.00c for galvanized and are easily the stiffest item in the sheet list. Tin plate remains at \$4.75, with concessions to large buyers. Pipe is being shaded by some independents 2½ to 5 per cent, a not uncommon practice.

While pig iron prices are not overly firm they are showing more resistance to declines than formerly. Thus a large buyer of foundry iron found in the past week that he could buy at \$18.75 from one valley furnace but had to pay \$19 to another furnace, whose iron was required in the mix, making the market quotable at \$18.75 to \$19 instead of \$19 flat. In basic the merchant furnaces are ignoring the recent sale on the basis of \$17.75, when the market had been quotable at \$18, and are talking \$18.25, evidently with the idea of getting \$18. Bessemer remains at \$19.50. Prices mentioned are all f. o. b. valley furnace.

Connellsville coke, reported stiffer a week ago, has undergone a definite advance in spot furnace, due to a demand suddenly arising in a market nearly bare of offerings. Reports are that 75 carloads were sold at \$3.25 and then 50 carloads at \$3.50. Three or four weeks ago the market was \$2.75 to \$2.90, depending on grade. Dover furnace, Dover, O., blown in two or three days ago, contracted to July 1 at \$3.25. Offerings of spot foundry coke at \$3.75, dwindling for weeks, have disappeared, leaving the market quotable at \$4.00 to \$4.25. Lighter offerings of coke are due to Connellsville operators turning their attention more to coal, which shows heavier inquiry due to expectations on the part of consumers that there will be a suspension at the union bituminous mines April 1, which would probably put some strain on the nonunion mines. Some observers, however, feel rather confident there will be no suspension.

Conditions in Birmingham Market.

Birmingham, Ala., February 20.—[Special.]—Southern furnace interests are about selling their make, with quotations rather weak. Sales are now being heard at \$15.50 per ton, No. 2 foundry, with \$16 being stated as the base price. An intimation is given that \$15 has even been accepted. The concerns melting pig-iron in this district at present are not buying except for needs for the next few weeks, confidence being felt that there will be no material or sudden advance in the market. Purchases of pig iron do not appear to be for any lengthy period ahead. The cast iron pipe interests have purchased some tonnages of pig iron for future use but soil pipe makers buy in small lots. Production in Alabama will show an increase by the blowing in of the blast furnace of the Gulf States Steel Company near Gadsden, basic iron being manufactured for use in the steel mill; and two of the open hearth furnaces of the steel plant have been started up again. Other departments of the steel mill near Gadsden are doing well. The Tennessee, Coal, Iron & Railroad Company will blow in another furnace about March 1.

Production in this state is taking a pace equal to that obtaining the first two months of last year. Sales of pig iron during the past week were mainly in from one to three car lots, delivery at once. The stocks of iron on yards will show a slight increase again, on the first of the coming month, unless the consumption in the home territory does not increase. Reports from the home territory are to the effect that there is better melt of pig iron noted and that high pressure pipe lettings are beginning to show up and the season is opening nicely, while the soil pipe plants are taking on more or less speed as recent reductions in prices brought about some business. High pressure pipe prices are based on \$33 per ton. The shipments to the Pacific Coast via Mobile and through the Panama Canal, are still being continued and some pig iron is now being routed that way.

The coke market in this district does not show any improvement. One company is reported to have more than 23,000 tons of coke on hand, the result of active operation of by-product plants during the dull season. The coke prices are still weak. Buying is for immediate needs only.

Coal production shows no improvement, but there is a better feeling. Reiteration is made of the statement that in case of a cessation of operations in Indiana, Illinois, Ohio and other states by reason of strike or other cause following the expiration of the present contract with the United Mine Workers of America, this district will be called upon to supply a large quantity of coal. There is, however, but little accumulation going on.

Quotations for pig iron and iron and steel scrap in the Birmingham district are as follows:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b., furnaces, \$15.50 to \$16.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.00 to \$16.50; iron of 2.75 to 3.25 per cent silicon, \$16.50 to \$17.00; iron of 3.25 to 3.75 per cent silicon, \$17.00 to \$17.50; iron of 3.75 to 4.25 per cent silicon, \$17.50 to \$18.00; charcoal iron, f. o. b. furnaces, \$32.00 to \$35.00.

OLD MATERIAL.

Old steel axles	\$14.00 to \$16.50
Old iron axles	19.50 to 21.50
Old steel rails	12.00 to 12.50
Heavy melting steel	11.50 to 12.00
No. 1 R. R. wrought	11.50 to 12.00
No. 1 cast	16.00 to 17.00
Stove plate	13.00 to 13.50
Old car wheels	13.00 to 14.00
Old tramcar wheels	12.00 to 12.50
Machine shop turnings	3.50 to 5.00
Cast iron borings	3.50 to 5.00
Cast iron borings (chem.)	12.40

Foreign Trade Convention at Philadelphia.

The Ninth National Foreign Trade Convention will be held in Philadelphia, Pa., May 10, 11 and 12. The convention program is now in preparation.

GOOD ROADS AND STREETS.

\$450,000 Bridge Contract Awarded in Missouri.

Boonville, Mo., February 20—[Special.]—Contract has been awarded for the construction of a highway bridge over the Missouri River here at a cost of approximately \$450,000 by the Old Trails Bridge Co. to the Mt. Vernon Bridge Co., Mt. Vernon, Ohio and the Missouri Valley Bridge & Iron Co., Leavenworth, Kan. Boonville voted \$50,000 bonds for the building of the side approach to the structure, the total length of which will be 3128 feet. The approach measures 564 feet. The river section will be 1820 feet long with three steel spans 420 feet each and two spans of 280 feet each. The long spans will be supported on concrete piers sunk to bed rock, the short ones placed on concrete piles. The opposite approach will be of piling and earth, connecting with a macadam highway.

The structure will provide a highway 20 feet wide and have a clearance above the standard high water stage of 55 feet to allow passage of any steamboat. Contract calls for completion of the bridge in December, 1922. Plans and specifications were prepared by Harrington, Howard & Ash, Kansas City, Mo.

Road Building Now Big National Industry.

According to statistics compiled by the Bureau of Public Roads of the United States Department of Agriculture, road building is one of the nation's largest industries, and now surpasses the manufacture of steel and iron, as well as the production, sale and repair of automobiles.

In December, 1920, less than 600,000 men were employed in the steel and iron industry, and it is estimated that last year something like 750,000 men were engaged in making, selling and repairing automobiles. As compared with this approximately 1,000,000 men labored last year throughout the construction season in building and repairing the country's highways.

According to the estimates of the Bureau approximately 50,000,000 tons of stone and gravel will be required by the 28,000 miles of Federal-aid roads either completed or under construction in the United States at the end of the present fiscal year. Some idea of the quantity is given by the fact that it is equal to 1,000,000 car loads.

\$24,000,000 for Texas Roads Last Year.

The State Highway Department of Texas has issued a summary of road work during 1921 covering 1261 miles involving the expenditure of approximately \$17,500,000. The report is as follows:

Type.	1921 Mileage.	Aid.	Cost.	Av. Per Mile.
Brick	21.56	333,000.00	973,290.42	45,143.34
Cement Concrete..	109.47	968,606.06	3,908,929.54	35,707.77
Bituminous	119.37	921,592.17	2,783,282.83	23,316.43
Gravel				
or Broken Stone	796.93	3,362,782.15	7,871,708.58	9,877.54
Shell or Caliche..	89.24	171,041.33	452,353.23	5,068.95
Grading				
and Structures	125.15	554,264.47	1,427,055.94	11,402.76
Total	1261.72	6,311,286.18	17,416,620.54	

Survey of Louisiana Road Building Material.

Baton Rouge, La., February 20—[Special.]—Steps have been taken by Governor Parker to assemble all information possible concerning the available supply of road building material in the state. The survey will show the locations, quantities and materials and the proximity to rail and water transportation.

"One of the important reasons for assembling the information," Governor Parker said, "is that it will show the proximity of material to the highways to be built and maintained. When suitable material is available in a section where a highway is to be built it is good business and common sense

to use material in that locality, when it comes up to requirements, instead of making a long haul and piling up freight charges. With this information in proper form the state will be in a position to construct and maintain highways at a minimum of cost."

Texas Road and Bridge Contracts Total \$675,000

During January road and bridge contracts were awarded in Texas for a total of approximately \$675,000, providing for 90 miles of highways and two bridges.

In addition road projects totaling 122 miles in length have been announced for which bids will be requested in the near future. Two bridge contracts will also be awarded soon.

Summary reports covering the contracts awarded last month and the projects planned for letting are as follows:

County.	Miles.	Type.	Contractor.	Total.
Falls	6.78	Bit. top	W. E. Dozier	54,419.01
Jasper	11.1	16' Grav.	John Thomson	134,553.63
Williamson ..	7.5	16' Grav.	Kuykendall & Shelton	26,872.42
		& Rk.		
Denton	10.3	Bit. top	J. E. Ward	99,792.47
Rusk	6.0	12' Grav.	O'Neal Const. Co.	9,161.01
Cameron .....	.4	16' Conc.	Dodds & Wedegartner	19,997.96
Taylor		Bridge	F. P. McElwath	18,951.46
Comal	16.62	16' Grav.	Harris & Powell	87,783.14
Fayette		Bridge	Lake Robertson	29,805.22
Fayette	3.21	16' Grav.	Starkey & Smith	32,822.06
Bastrop	9.68	16' Grav.	R. G. Buckner & Sons	70,829.78
Bastrop	8.8	16' Grav.	W. C. Moore	35,990.13
Webb	8.0	Bit. top	Haden & Austin	53,277.31
Harris		Conc.	W. A. McClendon	2,303.73

PROJECTS PLANNED FOR LETTING.

County.	Job No.	Proj. No.	Miles.	Hwy. No.	Type.
Coleman	42-A	196	22.4	23	16' Grav.
Smith	212-C	197-B	7.4	11	16' Grav.
Ward	238-C	263	12.5	1	16' Grav.
Wichita	243-E	262	8.2	2	18' Conc.
Trinity	228-A	225	17.4	19	16' Grav.
Milam	116-D	222	17.5	36	16' Grav.
Williamson	246-B	140-C	15.2	2-C	16' Grav.
Williamson	246-E	257	5.9	20	16' Grav.
Williamson	246-D	256-A	5.4	2	16' Grav.
Polk	187-B	134	10	35	Gr. & Sur.
Galveston	85-C	252	Br.	2	Br.
Hudspeth	116-B	245-E	Br.	1	Br.

\$5,000,000 for West Virginia Roads This Year.

Charleston, W. Va., February 20—[Special.]—Of the \$15,000,000 bond sale authorized by the last legislature, \$4,000,000 has been made available for work during 1922, \$6,500,000 for 1923 and \$4,500,000 during 1924. The Federal aid for 1922 is \$852,000 so that something over \$4,800,000 will be available for construction this year. In November and December contracts were awarded amounting to \$2,860,736 including \$65,568 for bridges. The road work is as follows:—gravel, 2 miles; water bound macadam, 6.6 miles; bituminous, 47.2 miles; concrete, 29.7 miles; grading only, 56.8 miles; total, 142.3 miles. These represent 39 projects in 30 counties. Other contracts will be let as fast as surveys and estimates can be made.

\$320,000 Contract Awarded in West Virginia.

Lewisburg, W. Va., February 20—[Special.]—Contract for building 14.5 miles of highway in Greenbrier County has been awarded the Sutton Construction Co., of Ashland, Ky., by the State Highway Commission at Charleston. It is the largest of 16 road contracts awarded recently and will cost approximately \$320,000, the work to start immediately.

Norfolk Paving to Cost \$233,000.

Norfolk, Va., February 18—[Special.]—F. J. McGuire, Bankers Trust Bldg., has been awarded the contract for construction of 78,000 square yards of sheet asphalt pavement at an approximate cost of \$233,000 according to an announcement just made by Chas. E. Ashburner, City Manager. W. N. Tayler is the engineer in charge.

LUMBER AND BUILDING MATERIALS

Widespread Demand for Hardwood.

Memphis, Tenn., February 20—[Special.]—Demand for hardwood is coming from all but a few important hardwood centers, and indications are that buying in volume is in sight. Already the building program is well advanced in the South, and the industry has felt the effect of early building.

Interior trim manufacturers and hardwood flooring producers have begun buying, and their requirements will increase weekly. The use of hardwood flooring has steadily increased during the past few years; formerly found only in the expensive type of houses it is now seen in modest bungalows and cottages. In 1909 the consumption of hardwood flooring was about 42,000,000 feet. In 1921 it had jumped to 160,000,000 feet and that figure represented only a period of building at the end of the year. It is said that the demand this year will be from 200,000,000 to 300,000,000 feet of flooring of this kind.

Furniture manufacturers are awake to the opportunities offered through the building of many houses, and here again the hardwood manufacturers will be called upon to furnish large quantities, say those who are well informed. Recent furniture shows have been marked by unprecedented buying.

The rehabilitation of the railroads of the country will take large quantities of materials, and while the hardwood industry will benefit only through sale of ties and lumber for general construction and repairs, the entire industry will benefit more indirectly by the prosperity created through railroad expenditures in volume.

The automobile industry is showing signs of increased activity and car buying is expected to increase sharply. The increased buying of closed cars will increase in large measure the use of hardwoods in automobile body construction. Similarly agricultural implement manufacture is expected to be stimulated.

Southern Pine Lumber Sales Increase.

New Orleans, La., February 18—[Special.]—Sales of lumber at mills of the Southern Pine Association increased sharply for the week ending February 10, orders received at 125 totaling 3310 cars containing 69,761,560 feet, giving an average order per mill of 558,992 feet compared with the average of 470,218 feet for the preceding week. Shipments also increased to 3017 cars containing 63,586,292 feet, averaging 508,690 feet compared with the average of 463,832 feet for the week of February 3. Production continues to maintain a fairly even level, high indeed when compared with the production of past weeks. For February 10 production at the mills amounted to 71,534,681 feet or an average per mill of 572,277 feet.

Shipments were 11.11 per cent below production. Orders were 24.79 per cent below production and 9.71 per cent above shipments. The increase in "orders on hand" during the week amounted to 2.77 per cent.

THE REPORT FOR THE WEEK IS AS FOLLOWS:

Orders on hand beginning of week	10,576	222,899,776
Orders received during week	3,310	69,761,560
Total	13,886	292,661,336
Shipments during week	3,017	63,586,292
Orders on hand end of week	10,869	229,075,044

Lumber Congress to Meet in Chicago.

Many delegates have been appointed and others are now being named by state, regional and national organizations of manufacturers, retailers and wholesalers, to attend the fourth American Lumber Congress in Chicago, April 6 and 7.

A tentative general outline of matters to be considered has been prepared by Mr. Wilson Compton and sent to a number of individuals and organizations for further suggestions. In

a general way it is contemplated that the Lumber Congress shall consider: First, matters relating to publicity, national and local advertising, building codes and trade extension; Second, matters relating to terms and conditions of sale and arbitration of disputes; third, lumber grades and sizes; inspection; fourth, recommendation for permanent organization of the American Lumber Congress.

Cement Plant at Full Capacity Again.

Dallas, Tex., February 18—[Special.]—"The outlook for business is such," said J. A. Wheeler, vice-president of the Texas Portland Cement Co., recently, "that we expect to be in full capacity within the next 30 days. We are employing 250 operatives and have run 24 hours per day without a shut down since 1919, a little over three years."

A fifteen-cent reduction per barrel was recently put into effect due to improved manufacturing conditions and increased output. More than \$300,000 was expended on improvements at the Dallas plant last year. Four kilns 125-feet long were replaced with three kilns 220-feet long. The mill capacity was enlarged one-third, permitting an output of 3500 barrels daily compared with the previous capacity of 2400 barrels. About 25,000 barrels of fuel oil are used monthly, running at two-thirds the actual capacity.

Will Have Exhibit at Cleveland Exposition

New Orleans, La., February 13—[Special.]—Arrangements have been completed by the Southern Pine Association to be represented with its "Own Your Home" exhibit at the American Building Exposition in the new auditorium at Cleveland, Ohio, February 22 to March 4, inclusive.

The Association's exhibits at recent building expositions and conventions held in Toledo, Columbus and Rochester, N. Y., have attracted widespread attention and much favorable comment and have resulted in numerous requests for the Association's house-planning books and blueprint plans and specifications of homes shown.

Plan Erection of 100 Houses For Rent.

Durham, N. C., February 18—[Special.]—The construction of more than 75 houses for rental purposes has been pledged for completion within the next 90 days, according to W. W. Weaver, chairman, of the local rent commission and other pledges in sight will bring the total to 100. An active campaign to this end has been waged for some time.

Annual Convention of Southern Pine Interests.

New Orleans, La., February 11—[Special.]—The next annual meeting of the Southern Pine Association will be held here March 28 and 29. The board of directors will meet on March 27. Manufacturers of yellow pine lumber from many Southern States will participate.

Begin Production of Intermediates for Dyestuff Manufacture.

Nitro, W. Va., February 20—[Special.]—The first unit of the Southern Dyestuffs Co. began the production last week of intermediates for the manufacture of dyestuffs. Six units similar to the one just completed are planned, by conversion of a portion of the huge Nitro power plant. The other five buildings are ready for installation of equipment, and it is expected that a new unit will be completed every 90 days. The plans contemplate the production of 160 standard intermediates when the entire plant is finished, and about 200 men will be given employment.

RAILROADS

Purchases Proposed By Tennessee Central.

Application for a Government loan of \$2,250,000 for ten years has been made to the Interstate Commerce Commission by the Tennessee Central Railway Company which offers an equal amount of its first mortgage bonds as security. The company also asked for authority to issue these bonds, besides \$3,000,000 of stock. The money is wanted for buying new cars, engines, shop tools and machinery, bridges, etc., and among the items are these: 25 miles of heavy steel rails and tie plates, \$175,000; 20 miles of continuous rail joints, \$11,500; three steel bridges, \$46,000; tie plates for sharp curves, \$14,000; filling trestles, \$30,000; additional tracks and extension of passing tracks, \$25,000; water stations and pumps, \$10,000; two coaling stations and cinder pits, \$15,000; two depot buildings, \$7500; shop facilities and machinery, \$65,000; five superheater units, \$10,000; freight locomotives, \$300,000; 300 coal cars, \$300,000; 50 stock cars, \$40,000; 50 box cars, \$40,000; 4 passenger cars and 2 combination mail and express cars, \$80,000.

Railroad Financing.

Gulf, Mobile & Northern Railroad Co. has applied to the Interstate Commerce Commission for a loan of \$1,088,188 to finance additions and betterments.

Knoxville & Carolina Railroad Co. has asked the Commission to approve its proposed issue of \$400,000 of new stock and \$300,000 of bonds for improvements on the Knoxville, Sevierville & Eastern Railway which it has acquired.

Wichita Falls & Southern Railway Co. has asked for authority to issue \$1,566,000 of 6 per cent bonds and \$144,000 of stock on account of the construction of its new line between Newcastle and Jimkurn, Tex.

Knoxville Railway & Light Co., Knoxville, Tenn., has been authorized by the Tennessee State Public Utilities Commission to issue \$195,000 of bonds, the proceeds to be used for improvements.

New Equipment.

Southern Pacific Railway has invited bids for 3300 refrigerator cars of 60,000 pounds capacity and with steel underframes.

Pennsylvania Railroad will build 20 all steel dining cars at its Altoona shops.

Chicago, Burlington & Quincy Railroad is in the market for 500 automobile cars.

Alabama, Tennessee & Northern Railroad is getting deliveries on 300 freight cars ordered several months ago from the Mount Vernon, (Ill.) Car & Mfg. Co. and it will also soon receive 2 freight locomotives ordered from the Lima Locomotive Co., Lima, Ohio.

Louisville & Nashville Railroad has in contemplation purchases this year of about \$5,000,000 of new equipment.

Baltimore & Ohio Earnings in 1921.

The statement of earnings of the Baltimore & Ohio Railroad for the calendar year 1921 shows railway operating revenues, \$198,622,373; decrease as compared with 1920, \$33,322,072; railway operating expenses, \$166,457,024; decrease, \$59,942,284; net revenue from railway operations, \$32,165,349; increase, \$26,620,212; net railway operating income after deductions, \$21,853,547; increase, \$26,319,588. The figures for December were: Operating revenues, \$15,504,563; decrease as compared with the same month of 1920, \$5,570,263; operating expenses, \$12,964,462; decrease, \$7,397,857; net revenue, \$2,540,101; increase, \$1,827,594; net railway operating income, \$1,653,252; increase, \$2,090,132.

Central Control for All Freight Cars in the Country.

President S. Davies Warfield, of the National Association of Owners of Railroad Securities, who is also president of the Seaboard Air Line Railway Company, presented before the Interstate Commerce Commission last week a plan to pool all the freight cars in this country under the control of a central authority so that they could be handled to greater advantage and with vastly greater economy, it was stated, than is now possible. Mr. Warfield pointed out the faults of the present methods of purchasing, distributing, using and repairing cars and stated that it was vital to the railroads that economies should be effected. He recommended the National Railway Service Corporation, which was organized by the National Association of Owners of Railroad Securities, as being the best to act as a central agency for buying, inspecting, repairing, rebuilding and directing the cars, but said that a Federal charter should be substituted for the present state charter of the corporation.

The plan which is the outcome of investigation and study of the board of economics and engineering of the association, was presented by W. W. Colpitts, in a report on behalf of the board, to president Warfield. It contemplates that the central agency shall be under the supervision of the Interstate Commerce Commission and also that in collaboration with the American Railway Association it shall be empowered to unify the operations of the carriers with respect to the purchase, repair and distribution of freight cars in such a manner as to invite participation by the roads.

A summary of benefits expected includes savings in railroad operation aggregating more than \$300,000,000 a year, a sum equal to about one-third of the \$911,000,000 paid in interest and dividends to the owners of bonds and stocks of Class I railroads during 1920. It is also noted that the agency would at once arrange to repair or rebuild 300,000 cars now in bad order, besides replacing with larger cars small capacity weak cars now existing. This would give employment to men now idle and aid in restoring business conditions besides putting in use 500,000 idle cars. Moreover, it is stated, under the unified operation of freight cars, car shortages would be less frequent and of shorter duration and new construction and replacements would allow more adequate provision of cars for crop movements.

The idea is that the agency shall work without a view to profit and that in collaboration with the American Railway Association it shall appoint local group committees to discover promptly car requirements in each section and to distribute cars accordingly, but each railroad will retain its local and special equipment, and each road's account will be credited by the agency with an equivalent of rental on all of its cars which it has submitted to control of the agency, but each road will also be debited with rental for foreign cars on its lines. Provision is made for certain equitable exceptions to these regulations. The ownership of existing equipment would not be disturbed and individual markings would be retained.

There are about 2,500,000 freight cars in service and normal yearly replacements would require about 100,000 cars to which it is asserted 50,000 cars must be added to keep pace with growth of traffic. It is pointed out that savings of \$33,000,000 a year could be accomplished in car purchases and that \$23,000,000 more could be saved in the financing of such purchases. Besides, empty car mileage through better handling of cars would save, it is estimated, \$9,000,000. Repairs under central control would save \$30,000,000 a year, it is calculated, and elimination of weak cars would save \$96,000,000 a year for ten years. Other economies would complete the total of \$300,000,000 estimated.

For the railroads it is stated that the plan means greatly reduced operating expenses; for the public improved railroad service, and—when other economies have been effected—reduced rates.

Increased Traffic Compared With Last Winter.

The Association of Railway Executives, Washington, D. C. says that due to increased traffic, principally in coal, merchandise and miscellaneous freight, which includes manufactured products, loadings of revenue freight totaled 753,886 cars during the week ended February 4 an increase of 10,158 cars as compared with the next preceding week, or 54,168 cars more than in the same week of last year.

Would Buy Two Gasoline Cars. Etc.

The Gulf, Mobile & Northern Railroad Co. has applied to the Interstate Commerce Commission for a Government loan of \$1,088,000 mainly to pay existing indebtedness and repair equipment, but \$40,000 will be used to improve the road's facilities at Mobile and \$30,000 will be spent to purchase two gasoline motor cars for branch lines.

Wants to Build an Extension.

The Kansas and Oklahoma Railway Co. proposes to issue \$1,500,000 of stock to finance construction of more line and application has been made to the Interstate Commerce Commission for authority to issue the shares.

Traction Company President Elected.

C. G. Holland has been elected president of the Danville Traction & Power Co., Danville, Va., to succeed John F. Rison, according to a press report from there.

Commendations, Kicks and Comments

Up to the Minute.

THOMAS E. FITZGERALD, Birmingham, Ala.—Of all the magazines I read—about 10 or 12, the MANUFACTURERS RECORD is the most up to the minute and instructive of all.

Valuable Information.

THE D. M. BARE PAPER COMPANY, Roaring Spring, Pa.—We have your favor of the 23rd inst. and wish to renew our subscription for the RECORD as this magazine contains quite a lot of valuable information. We herewith enclose check for \$6.50.

Best Reading on Vital Questions.

L. W. BORTON, Pres., Decatur Cornice & Roofing Co., Inc., Albany, Ala.—I am enclosing you my check for \$2.00 for which please mail me the MANUFACTURERS RECORD for three months to Sebring, Highlands County, Fla. The Decatur Cornice & Roofing Co., takes this periodical, and have for a number of years, but I desire to read it during my stay in Florida as I consider that it contains the best reading matter on the vital questions of the day.

Responsibility for the Federal Reserve Board.

G. D. PERRY, Madison, Ga.—Enclosed find check for \$6.50, to pay for the MANUFACTURERS RECORD this year. I am much pleased with your persistent fight against the Reserve Board. I think they deserve all you give them and more. I think the big moneyed interests, banks and trust companies, got control of them and they worked for these interests to make millions. As the present administration does not turn them out the same power has control of the Republican administration.

No Personal Credit Left to the People.

J. RICE SCOTT, J. Rice Scott & Co., Inc., Orlando, Fla.—Find enclosed check for \$6.80 to pay on subscription to MANUFACTURERS RECORD, which you will please mail here. The 30c. is for copy of the Blue Book of Southern Progress, or the South, Yesterday, Today and Tomorrow which you will please send to this address.

I have been reading with great interest your editorials from time to time, when I got hold of the RECORD in other offices, and I have been also reading the articles that are undoubtedly paid propaganda for the Federal Reserve System and it still seems to me that there is only one thing that can give relief to our country in the present distressing situation and that is to have the credit which was taken away from them by the Federal Reserve returned to them.

Without this personal credit which is practically enjoyed by no one at the present time, the banks become pawn-shops and it is almost impossible to carry on business in a normal way.

TEXTILE

To Manufacture Sweaters and Other Articles.

For the production of sweaters, bathing suits, jerseys and sport coats, the Lincoln Knit Goods Corporation of St. Louis, Mo., has been organized with \$200,000 capital, the president being E. W. Stewart. It is proposed to install 125 knitting machines, 65 sewing machines and complete dyeing equipment. Two boilers developing 300 horsepower will be installed and electric power will also be purchased.

Reorganized Cotton Mills to Begin Operations.

The Cash Mills of Gaffney, S. C., will be reorganized as the Alma Mills and the spinning of yarn will begin in the near future, according to a statement by W. C. Hamrick, who will be the executive head of the new company. The capital will be \$600,000. W. R. Tattersall, of Gaffney, will be the superintendent.

Textile Mill Notes.

An increase in capital from \$250,000 to \$350,000 has been authorized for the Spindale Mills Co. of Spindale, N. C.

An increase of capital from \$400,000 to \$600,000 has been announced for the Louisville Cotton Mills Co., of Louisville, Ky.

The Shamrock Damask Mills of Landrum, S. C., has been authorized to increase capitalization from \$20,000 to \$50,000.

The Lydia Cotton Mills of Clinton, S. C., have ordered 118 new 40-inch E Model Draper looms, replacing the same number of old plain looms.

The stockholders of the Diamond Hosiery Mills of Jellico, Tenn., have voted an increase in capital from \$100,000 to \$200,000.

A contract has been awarded by the Pee Dee Manufacturing Co. of Rockingham, N. C., to Tucker & Laxton of Charlotte, N. C., for the erection at mill village No. 2 of a 60,000-gallon standpipe, including the laying of mains, etc.

An increase of capital from \$300,000 to \$450,000 is planned by the Knoxville Spinning Co., of Knoxville, Tenn. It is stated that the additional capital is to pay for new machinery recently installed.

Reports from Sand Springs, Okla., state that Charles B. Peters, president of the Peters Oil Co. of Tulsa, Okla., will establish a cotton mill on the Sand Springs Railway, between Sand Springs and Tulsa. The cost is estimated at \$300,000.

The Princeton Hosiery Mills Co., of Princeton, W. Va., contemplates securing a two-acre site on which to erect a hosiery mill. The company is being organized by R. C. Sutherland, S. T. Bird, O. E. Susong and others.

The McLin Manufacturing Co., of Rome, Ga., has been organized with \$150,000 capital to erect a cotton mill, the location to be at Atlanta Junction, about 1½ miles from Rome. Charles E. McLin, of the Anchor Duck Mills, will be an official of the new company.

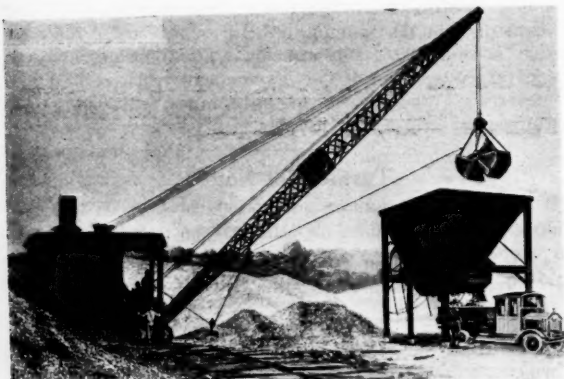
Sewerage facilities are being provided at its mill villages by the Roberdel Manufacturing Co. of Rockingham, N. C. A system has been completed at mill village No. 1 and work is to begin at once at village No. 2. Tucker & Laxton of Charlotte, N. C., are the engineers and contractors.

Equipment for the electrification of carding and spinning rooms has been purchased by the Excelsior Knitting Mills of Union S. C., this equipment consisting of 50 General Electric motors to be attached to the spinning frames and 12 General Electric motors for the line shafts in the card room. Link belt chain drives are to be used. The engineers are J. E. Sirrine & Co., of Greenville, S. C.

MECHANICAL

New Units of Road Building Machinery.

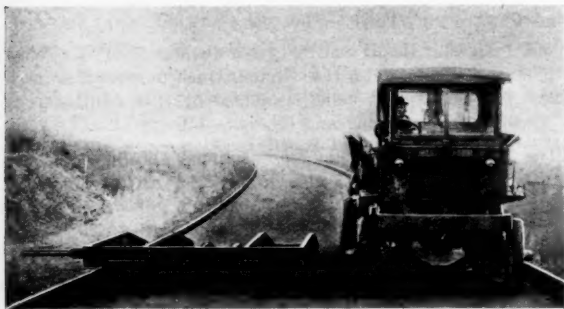
Road builders will be particularly interested in the several units of equipment here described because of their practicality, convenience and strength. First is a steel storage bin for road material designed to take the place of wooden bins. This steel bin is made so that it can be set up, used as long as desired, and then taken down and moved to another location where it can be set up again for service, without loss of material or damage to the structure. In the case of



STEEL STORAGE BIN AND BATCHER IN USE.

wooden bins it is remarked that when they are dismantled there is little of the wood which can be saved, because of the damage done to it in knocking it apart. Consequently it is stated that the cost of a steel bin in the end amounts to less than the cost of a wooden bin on any job, besides being more efficient in service. Its use is economical of time and labor. Besides, it enables a contractor to vary the bin capacity in accordance with the size of the job, for it is made of standard units to give a storage capacity of from 15 tons to 75 and 100 tons or larger if required.

Combined with the steel bin is the adjustable batcher, or measuring hopper, (which can also be attached to wooden bins if desired), designed to meet conditions when specifications are very exact, demanding that sand and stone shall



TRUCK TURNABLE SHOWING CLEARANCE FOR VEHICLES. be accurately measured and struck off. This batcher is a measuring device of steel and directly beneath the bin and it also includes the bin gate for the bottom of the storage bin. The gate is opened and closed and when shut the material in the batcher is struck off by the movement. Several batchers may be applied to one bin and when the batchers are full one operator can dump all the batchers at once, loading a four compartment truck with sand and stone in a few seconds. The batchers are made in two general sizes.

The third unit is a truck turntable which enables a contractor to run a truck at usual speed as near to the mixer as desired, so that there is a saving of time commonly taken to turn the truck some distance away and back it up for maybe 500 to 1500 feet and besides damage to the subgrade is avoided such as would result when turning a truck under its own power. As shown in the picture the turntable is placed at one side of the road occupying a space of only eight feet, and the runways are above the level of the forms. The turntable swings over the forms so that they do not have to be removed when it is in use. Furthermore, the turntable is mounted on a skid and that it can be moved from place to place without tearing up the subgrade; a truck can pull it about.

The road builders' units are all made by the Blaw-Knox Company, whose main office and works are at Blawnox, Pittsburgh, Pa., and who have also recently turned out their improved "C" road forms.

Mexican Oil Production and Exports Show Increase for 1921.

Mexico produced 195,064,089 barrels of petroleum and exported a total of 172,273,179 barrels of crude and refined oils in 1921, according to preliminary official figures of the Mexican Treasury Department announced by the American Petroleum Institute. These figures compare with a production of 163,540,000 barrels and total exports, including bunker oil loadings, of 151,314,063 barrels in 1920.

FOREIGN NEEDS

[The MANUFACTURERS RECORD receives many letters from abroad asking for information about American goods, and others, from men who wish to represent American houses. Without assuming any responsibility for these concerns, we publish a summary of the foreign letters of inquiry from week to week.]

Textile Machinery, Steam Engines, Etc.

C. B. SUTARIA BROS., Ahmedabad, British India.—Desire introduction to manufacturers who can supply cotton textile machinery, Corliss steam engines to furnish power, and mild steel hoop iron, stating earliest time of delivery.

Special Steel Wanted.

K. WASILEWSKI COMPANY, Nowolipie 74, Warsaw, Poland.—We wish to enter into closer connections with steel manufacturers producing a special kind of steel for the manufacture of steel nibs, as well as with manufacturers producing special machines for pressing out the steel nibs. For the manufacture of steel nibs we require half-hard cold laminated steel.

Desires to Represent American Manufacturers.

LUIS B. REYNA, P. O. Box 277, Guantanamo, Cuba.—I am interested in obtaining representation from American manufacturers of machinery and products, on commission, for the entire island of Cuba. I am also in position to act as general sales manager for American manufacturers in this country on either salary or commission. I have correspondents at all points of importance in the island.

Desires Business Connections.

SADANAND PURSHOTTAM KHAKHAR, Thakordwar Road, Bombay, India.—I desire to form connections with reliable manufacturers, shippers and exporters of your country on terms similar to those with which I am working with others of the United Kingdom, the continent of Europe and Japan. Trifling changes in these terms may be made here and there if required. These are not new or unusual terms, but such as are well known to all business houses in touch with the Bombay market. References.

General Farmers' Supplies.

LANDREN & WHITE, Coolamon, N. S. W., Australia.—Desire circulars, catalogs and price lists of various manufactured products as they handle general supplies for farmers, including oils, wire, tents, plowshares, tools, twine, churns, wagons, grease, ploughs, jacks, vehicles, harness, roofing, ladders, gates, separators, tarpaulins, furniture, fertilizers, automobiles, kerosene, benzine, stoves, machinery, farm hardware, bags, washing machines, sugar, etc. etc. Cutlery, harness, whips, etc. specially wanted.

Construction Department

EXPLANATORY.

The MANUFACTURERS RECORD seeks to verify and obtain additional information regarding all enterprises reported in its Construction Department, by direct daily correspondence. Further facts of news value are published later from telegraph, mail and representatives' reports. We appreciate having our attention called to errors that may occur.

DAILY BULLETIN.

The Daily Bulletin of the MANUFACTURERS RECORD is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$20.00 per year.

Bridges, Culverts and Viaducts.

Fla., Clearwater—State Road Dept., Tallahassee, Fla. let contract to A. Bentley & Sons Co., Toledo, O., at \$200,000 for building Safety Harbor and Seminole bridges; reinforced concrete. (Lately noted.)

Fla., Miami—City, Chas. W. Murray, Director Public Works will vote Mar. 7 on \$100,000 bonds to build bridge across river at S.W. Second Ave.

Fla., Sanford—Seminole County Comms. will sell \$98,500 bonds for building steel drawbridge at Osteen crossing of St. Johns river and resurface roads.

Fla., West Palm Beach—Palm Beach County Comms., Hector Harris, Chrmn. let contract to Champion Bridge Co., Wilmington, Del., at \$60,000 for building 7 bridges in Dist. No. 12. (Lately noted inviting bids.)

Ga., Athens—City will build bridge over Oconee river St., pave portion of Danielsville road; etc.; vote on \$50,000 bonds; J. W. Barnett, City Engr.

La., Monroe—Ouachita Parish Police Jury will build several bridges in connection with constructing 3 mi. road from Bosco.

Mo., Bloomfield—State Highway Dept., Jefferson City, Mo. will build bridges on State road from Cairo to Poplar Bluff; 30-ft., two 40-ft., 20-ft. and 50-ft. I-beam span bridges; 120-ft. steel truss span; etc.; cost about \$36,014.55; Stoddard County, Federal Aid Project 118, Section A.

Mo., Boonville—Old Trails Bridge Co. let contract to Mt. Vernon Bridge Co., Mt. Vernon, O., and Missouri Valley Bridge & Iron Co., Leavenworth, Kans., at \$450,000 for building 3128-ft. highway bridge across Missouri river; 5-span steel; Harrington, Howard & Ash, Engrs., 1012 Baltimore Ave., Kansas City, Mo. (Lately noted inviting bids.)

Mo., Chillicothe—State Highway Dept., Jefferson City, Mo. will build bridges on State road from Chillicothe southward; three 20-ft. and fifteen 20-ft. I-beam spans; Livingston County, State Aid Project 20.34.

Mo., Clinton—State Highway Dept., Jefferson City, Mo. will build bridges on State road from Clinton to Osceola; 100-ft. steel truss span; four 12-ft. reinforced concrete slab spans, etc.; cost \$27,764.95; Henry County, Federal Aid Project No. 87.

Mo., Harrisonville—State Highway Dept., Jefferson City, Mo. will build bridges on State road from Harrisonville to Archie; five 20-ft. I-beam spans; Cass County, State Aid Project 20.62 A; bids until Mar. 6; S. M. Rudder, Div. Engr., Sedalia, Mo. (See Mch. Wanted—Bridge Construction.)

Mo., Hillsboro—State Highway Dept., Jefferson City, Mo. will build bridge on State

road from Barnhart to Pevely; cost \$10,000; Jefferson County, Federal Aid Project 185; H. D. Griffith, Div. Engr., DeSoto, Mo.

Mo., Ironton—State Highway Dept., Jefferson City, Mo. will construct bridges on State road from Glover to Sabula; 100-ft. steel truss span; 40ft. I-beam span, etc.; cost \$37,594.20; bridges on State road from Ironton to Glover; 60-ft., 24-ft. reinforced concrete slab spans; etc.; cost \$9651.10; Federal Aid Projects, Sections B and A; bids until Mar. 3; M. S. Murray, Div. Engr., Sikeston, Mo. (See Mch. Wanted—Bridge Construction.)

Mo., Jackson—State Highway Dept., Jefferson City, Mo. will build bridge on State road from Jackson to Stoddard county line; 30-ft. I-beam span; 12 reinforced concrete abutments; cost \$6,833.45; Cape Girardeau County; M. S. Murray, Div. Engr., Sikeston, Mo.

Mo., Jefferson City—State Highway Comsn., approved plans for building steel bridge over Middle river; 90-ft. long; cost \$17,000.

Mo., St. Joseph—City, E. Marshall, Mayor plans voting April 11 on \$120,000 bonds for building Sixth St. viaduct.

Mo., West Plains—Howell County let contract to Alexander & Baty, Springfield, Mo., at \$6,929.74 for building bridge across Eleven Points river. (Lately noted inviting bids.)

N. C., Concord—Cabarrus County sold \$250,000 bonds for bridge and road construction. (Lately noted.)

Tex., Belton—Bell County will build additional reinforced concrete bridges on Highway No. 2; cost \$70,000; J. W. Sutton, County Judge, S. J. Treadway, County Engr., Temple, Tex.

Tex., Decatur—Wise County will build about 40 bridges and culverts and regrade 20 mi. Meridian highway; cost \$100,000; W. D. Paschall, County Judge; L. W. Taylor, County Engr.

Tex., Fort Worth—City, E. R. Cockrell, Mayor will vote in April on \$25,000 bridge building bonds.

Tex., Galveston—State Highway Dept., Austin, Tex. approved plans for construction of bridge over Dickinson Bayou; cost \$32,500; E. B. Holman, County Judge; C. C. Washington, County Engr.

Tex., Livingston—Polk County, E. T. Murphy, County Judge will build bridge over Trinity river; bids until Feb. 24; W. C. Youngs, County Engr. (See Machinery Wanted—Bridge Construction.)

Tex., Sierra Blanca—Hudspeth County will build 146-ft. reinforced concrete trestle bridge; bids until Feb. 28; Herbert Schroeter, County Engr. (See Machinery Wanted—Bridge Construction.)

Canning and Packing Plants.

Fla., Sarasota—Sarasota Fruit Products Co., purchased plant of Nassau Sound Packing Co.; will install equipment to pack fish, oysters and shrimp.

Md., Baltimore—Greenwald Packing Co., S. R. Greenwald, Mgr., Union Stock Yards, will expend about \$50,000 to improve plant; hog-cutting and sausage kitchen and smoke house; purchased sausage machines; will install; Otto Kubitz, Archt., Emerson Tower Bldg., Baltimore; Levine & Craven, Constr. Engrs., 42 Broadway, N. Y. (Lately noted.)

S. C., Greenville—J. E. Thackston, Route No. 3, plans establishing cannery with daily capacity of from 1000 to 3500 cans. (See Machinery Wanted—Cannery Equipment.)

S. C., Union—Union Cannery & Products Co., capital \$10,000, inceptd. by Lewis M. Rice, Robt. W. Beatty and C. K. Hughes.

Tenn., Rockwood—Roane Packing Assn., organized with Polk Tarwater, Prest.; Wm. Insinger, V.-P.; F. A. Brasel, Treas.; S. J. Parks, Secy. and Gen. Mgr.; secured site; will establish cannery for vegetables.

Clayworking Plants.

Ark., Fort Smith—Bricks—Choctaw Brick & Gas Co., Allan Kennedy, Secy., plans increasing capital from \$50,000 to \$75,000.

Okla., Muskogee—Bricks—Muskogee Vitri-fied Brick Co., F. C. Nicholson, Prest., will increase capital from \$100,000 to \$125,000. (Lately noted.)

Tenn., Greenback—Bricks—Greenback Brick Co., J. L. Jones, Owner-Mgr., will establish brick mfg. plant; daily capacity 30,000 bricks; plans installing side tracks; daily output 3 carloads.

Coal Mines and Coke Ovens.

Ky., Greenville—Service Fuel Co., capital \$100,000, inceptd. by Carlisle Kirkpatrick and J. L. Rodgers, Greenville; A. D. Kirkpatrick, Russellville, Ky.

La., New Orleans—Consolidated Fuel Co., capital \$100,000, inceptd. with H. E. McCormick, Prest., Birmingham, Ala.; R. J. Milling, Secy., Mobile, Ala.; R. P. Hyams, V.-P. and Gen. Mgr., New Orleans; to supply coal to ships in New Orleans, Mobile and Pensacola; plans to move about 200,000 tons annually.

Okla., Oklahoma City—Okmulgee County Coal Co., capital \$250,000, inceptd. by Charles E. Froese, George C. Brown and Emile Hemming, all New York City.

W. Va., Big Chimney—Granny Branch Coal Co., Ernest de Ligny, Prest., 70 Wall St., New York; has 1400 acres coal land, daily output 160 tons to be developed to 1000 tons; install motor cars and mining machines, bids not before May; Clark & Krebs, Engrs., Charleston, W. Va.; increased capital to \$1,000,000.

W. Va., Charleston—Imperial Colliery Co., Quin Morton, Gen. Mgr. increased capital from \$600,000 to \$1,000,000.

W. Va., Slab Fork—Slab Fork Coal Co., G. H. Carperston, Prest., Charleston, W. Va. increased capital from \$200,000 to \$500,000.

Concrete and Cement Plants.

Fla., Chuluota—Concrete Bricks, etc.—Petrous Mfg. Co., capital \$50,000, inceptd.

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with Frank Wheeler, Prest., Oviedo, Fla.; J. A. Rogers, Secy.-Treas.; A. S. Nunamaker, Mgr. and Contr., both Chuluota; will erect 2 story 40x55 ft. building, \$14,000; install concrete plant equipment, bids open; daily capacity 30,000 bricks, plaster composition, fire and rat proof building materials, etc.; D. G. Zeigler, Archt., Columbia, S. C. Previously noted. (See Machinery Wanted—Concrete Plant Equipment; Shovels (Steam); Rails, Etc.; Molds.)

W. Va., Parkersburg—Concrete Products—Biddle Concrete Co., John C. Biddle, Clarksburg, W. Va. will rebuild burned plant; \$20,000; construction by owner.

Cotton Compresses and Gins.

Tex., Stamford—Cass Cotton Machinery Co., will establish ginnery.

Drainage Systems.

Ala., Fayette—Fayette and Lamar County Drainage Dist. No. 1, W. M. Suddeth, Prest. of Board of Commrs., Kennedy, Ala. will construct drainage system, 2,500,000 cu. yds. excavation; floating dredge work for main canal and dragline for laterals; plans selling \$500,000 bonds. (Previously noted.)

Ark., Eudora—Eudora Western Drainage Dist. Commrs. will construct 30 mi. open ditches and 10 mi. channel improvements; 4,500,000 cu. yds. excavation; soon invites bids; Baxter Engineering Co., Engr., Moore and Turner Bldg., Little Rock, Ark.

Ark., Pine Bluff—Salt Bayou Drainage Dist. W. C. Hudson, Secy. let contract to Oscar Kochitzky, England, Ark. construct 18 mi. canal and 17 mi. laterals, floating dredge work; \$410,000; will reclaim 50,000 acres land; Parks Engineering Co., Engr., Pine Bluff. (Lately noted.)

Ark., Pine Bluff—Farrelly Drainage Dist. Commrs., John M. Gracie, Chrmn. will construct drainage system, build flood gate at mouth of Big Bayou Meto; estimated cost \$350,000; let contract by Feb. 20.

Fla., West Palm Beach—Highland Glades Drainage Dist., C. E. Chillingworth, Secy. will construct 20 mi. canals, about 63 mi. ditches; reclaiming 19,902 acres land; bids until Feb. 25; H. Ruggles, Chief Engr., Room 15, Postoffice Bldg. Lately noted. (See Machinery Wanted—Drainage.)

Mo., Princeton—Mercer County Drainage Dist. Commrs. will construct 9 mi. drainage ditches; bids opened Feb. 23; M. H. Mooney, Engr.

Okla., Norman—Cleveland County Drainage Commrs., Canal No. 1, plan constructing 8 mi. drainage system; Fred. Cobb, County Engr.

Tenn., Dresden—Givens & Reynolds, Arlington, Ky. received contract for drainage project in Weakley County; construct 35 mi. land; estimated cost \$232,000; Abion River Drainage Dist.

Tex., Houston—Gulf Coast Reclamation & Drainage Assn. organized with W. T. Eldridge, Prest., Sugar Land, Tex.; H. H. Haines, Secy.-Mgr., Houston; to reclaim land in gulf coastal region of Texas.

Electric Plants.

Ala., Birmingham—City let contract to Moore & Handley Hardware Co., for electric lights and other lighting equipment.

Ala., Gadsden—Chamber of Commerce interested in extending white way on Broad St. from 6th St. to Emma Sansom monument, and having city acquire lighting system.

Fla., St. Petersburg—Citizens' Ice & Cold Storage Co., Leon Lewis, Mgr., will install power plant for factory; let contract to Mc-

Intosh & Seymour, Auburn, N. Y. for 2 Diesel engine, 200 and 400-H.P. respectively; and to General Electric Co., New York, for generators and electrical equipment; generating 550 K. W.

Fla., Tampa—City, A. W. D. Hall, Mgr., let contract to Tampa Electric Co., T. J. Hanlon, Jr., Mgr. to install electric lighting system in 9 sections of city; supersedes gas.

La., Covington—St. Tammany Ice, Light & Water Co., plans improving plant; Henry A. Mentz, Consult. Engr., Magnolia, Miss.

La., Huoma—City, H. M. Bourg, Mayor, plans constructing combined electric light, water-works and filtration plant; vote March 21 on \$200,000 bonds to install additional machinery at light and water plant; 500-H.P. boiler, etc.; W. J. Carroll, City Electrician.

La., New Orleans—Citizens' Light & Power Co., capital \$2,000,000, organized with Harry K. Johnson, Hibernia Bank Bldg., interested; granted franchise to erect electric light and power plant; first unit will be 1-story building; will install Diesel crude oil burning engines. (Lately noted H. K. Johnson plans installing plant.)

Mo., Kansas City—Kansas City Light & Power Co., 15th and Grand Aves., is expending \$3,750,000 to enlarge plant.

Mo., St. Charles—City will construct electric light and water plant; plans voting on \$250,000 bonds. Address The Mayor. (Lately noted.)

Mo., St. Louis—City, Louis P. Aloe, Prest. Board of Aldermen, will install electric lighting system; plans voting Aug. 1 on \$6,000,000 bonds.

Mo., St. Joseph—City, E. Marshall, Mayor, will improve and extend light plant; plans voting Apr. 11 on \$300,000 bonds; also will install additional equipment in plant; plans voting Apr. 11 on \$150,000 bonds.

N. C., New Bern—City plans installing lighting system in business district. Address The Mayor.

N. C., Vanceboro—Town, Stonewall Jackson, Mayor, will install electric lighting system; plans issuing \$15,000 bonds.

Okla., Enid—City Commrs. plans installing electric light and power system.

Okla., Foss—City will improve electric plant and water systems; H. G. Olmstead & Co., Engrs., Oklahoma City.

Okla., Guthrie—City plans expending \$23,000 to construct 15-mi. transmission line from city to Crescent, Okla. Address The Mayor.

Okla., Hugo—Hugo Ice & Light Co., O. H. Weddle, Mgr., granted franchise to construct high line to Fort Towson from city, by way of Sawyer.

Okla., Shidler—Town let contract to J. C. Blankenship, of Bigheart Light & Power Co., Bigheart, Okla., to install electric light plant.

Okla., Tulsa—Vera Light & Power Co., capital \$10,000, incptd. by W. L. Page, Erwin J. Dooner and H. O. Bland.

Okla., Vera—City will install electric light & power system; vote March 20 on \$7000 bonds. Address The Mayor.

Tenn., Smyrna—Smyrna Electric Light Co., organized with J. H. Edwards, Prest.; E. A. King, Secy.-Treas.; let contract to Electric Light & Power Co., Murfreesboro, Tenn. to furnish power; construct transmission line from Walter Hill to city.

Tex., Dallas—Dallas Power & Light Co., plans constructing transmission line from Dallas to connect with Texas Power & Light Co.'s line at Trinity Heights, costing \$125,000; install 3-phase distribution system to supersede 1 and 2-phase system; also new spray pond cooling system at main plant.

Tex., Kaufman—City will improve lighting system. Address The Mayor.

Tex., Livingston—City will erect power plant; voted \$30,000 bonds. Address The Mayor. (Lately noted to vote.)

Tex., Seymour—Seymour Power & Ice Co. increases capital from \$50,000 to \$100,000.

Tex., Terrell—City is installing new electric equipment at electric light plant. Address The Mayor.

W. Va., Gilbert—Gilbert Water & Light Co., Roy Fox, Secy. will construct lighting system; bids until Feb. 25. Lately noted organized. (See Machinery Wanted—Lighting System.)

Flour, Feed and Meal Mills.

Mo., Kansas City—Wyndotte Milling Co., O. M. Hardenburgh, in charge, let contract to Turner Construction Co., to construct 90x32x32 ft. grain drying building; Baxter Engineering Co., Archt.-Engr., Elliott Sq., Buffalo, N. Y.

S. C., Greenville—W. Lindsay and Arthur W. Smith plan organizing \$100,000 company to establish 175-bbl. daily capacity flour mill. Address Chamber of Commerce.

Tenn., Nashville—Holt Milling Co., 812 First Ave., North, organized with W. P. Holt, Prest.-Mgr.; D. C. Scales, V.-P.; E. P. Scales, Secy.-Treas.; leased building for milling (Lately noted incptd., capital \$20,000.)

Tex., Beaumont—Hutchison-Osteen Feed Co., capital \$15,000, incptd. by H. A. G. Hutchison, A. A. Osteen and W. C. Keith.

Va., Graham—Eclipse Roller Mill is improving plant; will install corn mills; increase daily capacity to 1000 bu. meal and 200 bbls. flour.

W. Va., Mount Lookout—Mount Lookout Milling Co., incptd. by L. E. Moses, J. L. Evans and Z. B. McClung.

Foundry and Machine Plants.

Ala., Birmingham—Cast Iron Pipe—American Cast Iron Pipe Co., 16th and 30th Aves. plans building fireproof pattern shop.

Ky., Louisville—Bolts, etc.—Ohio Nut & Bolt Co., capital \$150,000, incptd. by H. G. Wilkinson, F. B. Ayers and Robert F. Vaughan.

La., Bossier City—Machinery—Shreveport Foundry & Machine Co., Cedar Grove, La. reported to move plant to Bossier City; contracts let for construction; purchased 3 acre site.

Md., Baltimore—Oil Well Supplies—Chicago Nipple Mfg. Co., Dixon C. Williams, Prest., 1966 Southport, Chicago, Ill. reported to establish branch; mfrs. nipples and oil well supplies.

S. C., Belton—Machinery—Southern Foundry & Machine Co., capital \$10,000, incptd. with C. F. Cox, Prest.-Treas.; Lemuel Stansell, V.-P. and Secy.

Tex., Dallas—Mill and Plumbers Supplies—N. O. Nelson Mfg. Co., Chas. G. Singleton, Mgr., St. Louis, Mo. will erect 115x260-ft. concrete building, estimated \$100,000; bids open about Mch. 15; Herbert M. Greene & Co., Archt., Dallas, Tex. (Lately noted to erect branch plant.)

Va., Richmond—Foundry—American Locomotive Co., 1301 N. Boulevard, will erect brass foundry adjoining plant; brick construction; estimated cost \$15,000.

W. Va., Charleston—Brass—T. and A. Brass Foundry Co., capital \$20,000, incptd. by Ellie T. Thayer, Thomas Allison and Joe Liversage.

Gas and Oil Enterprises.

Ala., Robertsdale—Sanford-Seever Orchard Co., plans erecting gas producing plant;

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install 16,000-gal. tank. (See Machinery Wanted—Tank; Engines, etc.)

Ark., Fort Smith—Choctaw Brick & Gas Co., Allan Kennedy, Secy., plans increasing capital from \$50,000 to \$75,000.

Ark., Little Rock—Southern Trust Co., interested in extending gas lines to Chesterfield Square, to be developed. (See Land Developments.)

Fla., Miami—Consolidated Oil & Gas Co., 31 E. Flagler St., capital \$500,000, inceptd. with Ray M. Wiley, Prest.; Louis Fine, V.-P.; Daniel J. Gorman, Treas.; T. J. Butler, Secy.

Ky., Erlanger, P. O. Covington—Tycoon Oil Co., capital \$50,000, inceptd. by J. B. Respress, Erlanger; E. B. Terrell, Covington; Ben. Berkshire, Petersburg, Ky.

Ky., Leach, P. O. Catlettsburg—Refinery—Great Eastern Refining Co., capital \$200,000, inceptd. with A. J. Dalton, Prest., Huntington, W. Va.; T. H. Gilman, Gen. Mgr., will erect 500 to 1000 bbl. daily capacity crude oil refinery; plans increasing to 2000 bbls. daily; will install storage tanks, agitators, tanks, still, machinery, etc.

La., Shreveport—Bickley Oil Co., capital \$15,000, inceptd. by A. E. Bickley, L. E. Plaisand and J. D. Pennington.

Mo., Kansas City—Lion Oil & Refining Co., organized with Victor H. Smith, Gen. Mgr.; has 5000-bbl. capacity refinery; lay 10 mi. 4-in. pipe line, costing \$78,313.11. Lately noted inceptd., capital \$150,000. (See Machinery Wanted—Tank; Agitator; Pipe, etc.)

N. C., Winston-Salem—Winston-Salem Gas Co., W. E. Moss, Prest., plans laying 6 mi. gas mains to furnish gas to Southside, Ardmore and West Salem.

Okla., Ardmore—Home Oil & Gas Co., capital \$10,000, inceptd. by E. J. Burris, H. C. Anderson and J. S. Kendricks.

Okla., Bartlesville—Homeland Drilling Co., capital \$30,000, inceptd. by A. C., C. L. and Edith St. Clair.

Okla., Oklahoma City—Whaleback Oil Co., capital \$50,000, inceptd. by G. D. Samuel, Geo. F. Mercer; both Houston; H. N. Whalin, Lawton, Okla.

Okla., Okmulgee—Okmulgee Oil & Gas Co., capital \$25,000, inceptd. by Tom Payne, Frank Chesley.

Okla., Tulsa—Tulsa Union Oil & Gas Co., inceptd. by T. T. Baker, Carter Smith.

Tex., Galveston—Hil-Tex Oil Co., capital \$250,000, organized with S. P. Knox, Prest., Dallas, Tex.; R. R. Bennett, Secy.-Treas., Dallas, Tex.

Tex., San Antonio—Texas Diamond Oil Co., inceptd. by I. Kiger, W. E. Hitchcock and W. J. Cooper.

Tex., Wichita Falls—Associated Producing & Refining Corp. of Texas, capital \$25,000, inceptd. by Howard Walker, L. B. Haines and Jonas Kizer.

W. Va., Charleston—Tampico Gas Co., capital \$100,000, inceptd. with E. C. Staunton, Horace S. Meldahl and Jas. G. Bunting.

Hydro-Electric Plants

Ala., Geneva—Houston Power Co., Newton, Ala. will build 12 mi. transmission line from Hartford to Geneva; 11,000-volt; Southern Engineering Corp., Engr., Albany, Ga. (See Mch. Wanted—Electric Power Equipment.) (Lately noted.)

Mo., Linn Creek—Osage Power Development Co., W. R. Banks, Mgr., Lock Box 922, Lamar, Mo. plans constructing tunnel and dams in Camden County; cost \$5,000,000 to \$8,000,000; 120 mi. transmission; 30,000 to 40,000 H.P. Lately noted. (See Mch.

Wanted—Water Power Development Mch.; Electric and Transmission Supplies, Etc.)

Tex., San Angelo—San Angelo Water, Light & Power Co. will reconstruct Ben Picklin dam over South Concho river; cost \$12,000.

Ice and Cold-Storage Plants.

Ark., Ola—G. W. Miks, plans installing ice plant.

Ark., Wilson—Wilson Ice & Coal Co. will erect ice plant; estimated cost \$40,000.

Fla., Marianna—C. M. Horne and W. J. Singletary plans erecting 15 ton capacity ice plant.

Ga., Adel—Adel Ice & Fuel Co., Richard Graf, Prest.-Mgr. will erect 50x150-ft. reinforced concrete plant; bids open about May 15; install 15 ton capacity plant for meat curing, etc. Lately noted. (See Machinery Wanted—Compressors.)

Ga., Jacksonville—Greenfield Farms Corp., J. T. Alsop, Prest. plans establishing ice plants and dairies in various parts of state.

Ga., Lafayette—P. D. Fortune plans establishing ice plant.

Ga., Macon—American Cone & Pretzel Co. has under construction \$60,000 ice plant.

Miss., Durant—Powell V. Vail, Jackson, Miss., contemplates establishing ice plant.

Mo., Higbee—E. E. Bailey and H. E. Mitchell plan to establish 10 ton capacity ice plant.

Mo., Pineville—Ozark Electric & Mfg. Co. will establish ice plant.

Mo., Rockport—Hackel & Slater, install ice storage plant in meat market.

Miss., Waynesboro—E. C. Cook and Robert Golden, establish ice plant in connection with electric light plant.

N. C., Lexington—Lexington Ice & Coal Co. double capacity of plant.

Okla., Chickasha—Chickasha Ice & Cold Storage Co., O. L. Bingham, Mgr., plant improvements completed, daily output 65 tons; install high speed automatic steam driven, direct connected 240 volt, A. C. dynamos; motors to all auxiliaries. (Lately noted to expend \$10,000 on plant improvements.)

Tenn., Jellico—Jellico Ice Co., expend \$7000 on cold storage plant.

Tenn., Memphis—DeSoto Oil Co., erect 1 story brick and frame ice plant, estimated cost \$11,000.

Tenn., Sparta—Lee & Fooshee Lumber Co., will erect 40x60-ft. ice plant; construction by owners; install \$12,000 mch., daily capacity 15 tons.

Tex., Baird—American Public Service Co. has under construction cold storage plant with 300 ton ice vault; brick and concrete construction; \$75,000; capacity to ice 10 cars at one time.

Tex., Breckenridge—Republic Power & Service Co., Chicago, Ill. acquired plant of Breckenridge Ice & Cold Storage Co.; will expend \$40,000 on improvements.

Tex., Dallas—Cliff Ice & Cold Storage Co. contemplates plant additions.

Tex., Galveston—Galveston Coca-Cola Bottling Co. plans installing 30 ton raw water ice plant.

Tex., Georgetown—Georgetown Ice & Bottling Works, rebuilding plant, double capacity.

Tex., Houston—N. L. Casperson contemplates building ice plant.

Tex., Mexia—Republic Power & Service Co. plans erecting 100 ton daily capacity ice plant.

Tex., Orange—Orange Ice, Light & Water Co. expend \$50,000 on improvements, double ice plants capacity.

Tex., Runge—F. Keefers and B. Nixon purchased ice plant, will remodel.

Tex., Vernon—Harry Mason, Mayor, expend \$100,000 on erection of ice and light plant.

Tex., Waco—D. O. Dillingham and others reported to erect ice plant.

W. Va., Charleston—Diamond Ice & Coal Co. reported to erect 2 story ice plant, estimated cost \$50,000; plans by A. C. Bishop, Cleveland, O.

W. Va., St. Marys—St. Marys Ice Co., capital \$18,000, inceptd. by O. C. Barkwire and C. F. Ruttercutter, St. Marys, W. Va.; Dan H. Reynolds, Parkersburg, W. Va.

Land Developments.

Ala., Sheffield—Wilson Dam Land Co., Montgomery Ave., organized with John B. Floyd, Prest.; A. S. McGregor, Secy.-Treas.; will develop 200-acre site 1½ mi. south of Plant No. 2, for sub-division; P. S. Milner, Engr. (Lately noted inceptd., capital \$10,000.)

Ark., Little Rock—Southern Trust Co., interested in developing 40-acre site, Chesterfield Square, into residential section; extend water and gas lines; pave streets.

Fla., Avon Park—Red Hill Farms, capital \$10,000, inceptd. with R. W. Swearingin, Prest.; G. W. Adams, V.-P.; John H. Hood, Secy.-Treas.

Fla., Eustis—Ingersoll Groves Corp., capital \$600,000, inceptd. with Chas. H. Ingersoll, Prest.; F. S. Battle, V.-P.; H. C. Duncan, Secy.; W. C. Daniels, Treas and Development Mgr.

Fla., Miami—City, C. W. Murray, Director Public Service, will construct and equip parks; vote March 7 on \$25,000 bonds. (Lately noted.)

Fla., West Palm Beach—Gruber-Carlberg Co., acquired 10,000-acre site; will improve.

Fla., West Palm Beach—O. Frank Woodward, Everglades Ave., Palm Beach, Fla., and Poland Springs, Maine, purchased site in Everglades; will plant cane.

Miss., Laurel—Sunbrier Farm, capital \$15,000, inceptd. by W. B. Rogers and Chas. Green.

Mo., St. Louis—City, Louis P. Aloe, Prest. Board of Alderman, will purchase parks, playgrounds and community centers; plans voting Aug. 1 on \$1,700,000; will improve existing parks and playgrounds; plans voting Aug. 1 on \$1,300,000 bonds.

N. C., Asheville—Lakeview Park Co., capital \$500,000, inceptd. with J. D. Murphy, Prest.; Canie N. Brown, Treas.; Fred. L. Sale, Secy.; will develop 1100-acre site in Beaverdam section for residential section; develop 150-acre site for golf course; erect 370x40 ft. dam; acquired holdings of Asheville Park Co.

N. C., Winston-Salem—City plans park development in northern section of city. Address The Mayor.

Tenn., Johnson City—Southwest Apartment, care Wofford Bros., will develop about 1½-acre site around apartment house under construction; D. R. Beeson, Archt.; E. S. Draper, Landscape Archt., 11 E. 5th St., Charlotte, N. C. (Lately noted.)

Tenn., Knoxville—Crest View Cemetery Co., organized with W. C. Kennedy, Prest.; R. G. Wright, V.-P.; Wm. L. Gamble, Secy.; E. E. Foglesong, Treas.; will develop 12-acre site for cemetery; invites bids. (Lately noted inceptd., capital \$10,000.)

Tenn., Sullivan County—Blountville Nurseries, organized with R. M. Masengill, Prest.;

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

A. B. Long, Secy.; C. J. Long, Mgr., will develop 15 to 20 acres for fruit growing. (Lately noted under Blountville, Tenn., inceptd. capital \$10,000.)

Lumber Manufacturing.

Ala., Ensley—Scott Lumber Co. (lately noted inceptd., capital \$13,000) organized with N. W. Scott, Pres., has plant, mch., installed. (See Machinery Wanted—Building Materials.)

Fla., Plant City—A. W. Smith reported to double capacity of saw mill.

Ky., Jeff—Equitable Lumber & Supply Co., capital \$40,000, inceptd. by Leslie Picklesimer, Jeff.; and Hobart Picklesimer, Millstone, Ky.

Md., Cumberland—Western Maryland Lumber Co. increased capital from \$25,000 to \$50,000.

Miss., Laurel—J. M. Griffin, has plant, for mfr. of long and short leaf pine; install 8 ft. band and 40-in. No. 12 Wicks gang saws; 72-in. P. & S. edger; H. S. & G. boilers and engines; Moore dry kiln and Woods planing mch. (Lately noted, Burnside, Miss.)

Miss., Waynesboro—A. Bonney, Enterprises, Miss. will establish planing mill.

N. C., Wilmington—McIver Lumber Co., M. C. McIver, Pres., purchased plant of Wilmington Lumber Co., at Navassa, will remove mill to lately acquired timber tract, and develop.

Tenn., Memphis—Mississippi Valley Hardwood Lumber Co., Randolph Bldg., (lately noted inceptd., capital \$100,000) organized with James F. McSweeney, Pres.; K. L. Emmons, V.-P. and Mgr.; E. H. Scott, Secy.-Treas.; absorb K. L. Emmons Co., also acquired Sunflower Lumber Co.'s band mill at Clarksdale, Miss.

W. Va., Hardy and Hampshire Counties—Winchester Lumber Corp., William B. Cornwell, Pres., Winchester and Western R. R. Co.'s Bldg., Winchester, Va., reported to have purchased 35,000 acres land, containing about 200,000,000 ft. timber, and to install 20 saw mills, mfr. various kinds of lumber, hardwood flooring and cooperage materials.

Metal-Working Plants.

Fla., Jacksonville—Water Filters—Florida Filter Corp., 219 W. Bay St., (lately noted inceptd., capital \$20,000) organized with W. E. Dunbar, Mgr.; has building, assemble 500 water filters per month. (See Machinery Wanted—Water Filter Parts.)

Ky., Louisville—Hoes, etc.—Graft-Bright Mfg. Co., 441 E. Jefferson St. organized to mfr. garden hoes, implements, etc.; daily output about 3000; to correspond with mfrs. agents.

Md., Baltimore—Cigar Machinery—Tobacco Feeder Co., 227 N. Holliday St., capital \$20,000, inceptd. by Wm. Hollingsworth, Milton Wertheimer and Albert A. Heyman; mfr. mch., used in cigar and cigarette factory.

Va., Bristol—Nickel Brass Pencil—A. E. Anderson and W. N. Canter plan establishing plant for mfr. of nickel brass pencil, patented by Anderson and Canter.

Mining.

Ark., Whitecliff—Chalk, etc.—Krippendorf-Tuttle White Cliff Products Co., R. W. Foster, Gen. Sales Mgr. will develop 900 acre tract; has under construction plant with daily capacity of 200 tons whitening, and later to produce 200 tons commercial fertilizer daily.

La., Baton Rouge—Gravel—Fluker Gravel Co., capital \$100,000, inceptd. with Oliver O. Ogden, Pres.; Jessie G. Ogden, Secy.

Mo., St. Charles—Rock and Lime—Weldon Spring Quarry, capital \$100,000, plans establishing plant, capacity to be 8 carloads crushed rock and 2 carloads lime fertilizer.

N. C., Hiddenite—Stone—Hiddenite Quarry Co., Concord, N. C., capital \$100,000, inceptd. with E. V. Correll, plant Mgr., will construct rock crushing plant, contemplated daily capacity 1000 tons; let contract to construct railroad through plant.

Miscellaneous Construction.

Ala., Opp—Swimming Pool—Opp Place Club contemplates constructing swimming pool in Della Park.

Ark., Asheville—Dam—Lakeview Park Co., J. D. Murphy, Pres., will construct 40x370-ft. dam across Beaverdam Creek; Thomas A. Cox, Engr. (See Land Development.)

Ark., Booneville—Chicago, Rock Island & Pacific R. R. C. A. Morse, Chief Engr., Chicago, Ill. let contract to Railroad Water & Coal Handling Co., 608 Dearborn St., Ill. to construct frame coaling station; estimated cost \$20,000.

D. C., Washington—Wharf Deck—Dist. Commrs. plans constructing cement wharf deck off Water St., between N and M Sts.; Cambridge Mfg. Co., Cambridge, Md., lowest bidder at \$14,260.

Fla., Miami—Wharf, etc.—Chas. W. Murray, Director of Public Service and Welfare, Box 34, plans expending \$400,000 on wharf and slip construction.

Fla., Miami — Inlet — Bakers Haulover Commn., J. C. Baile, Chmn., will expend \$250,000 on construction of inlet or channel between Atlantic Ocean and Biscayne Bay, in Dade County; Robert Crabtree, Engr. (Lately noted to vote on \$150,000 bonds.)

Fla., St. Augustine—Seawall, etc.—City Commrs. have tentative plans for extension of seawall out to deep water mark, also develop intervening space into boulevard, etc.

Ga., Atlanta—Swimming Pool, etc.—J. N. Landers, Purchasing Agt. will construct additions to bath houses, pergola, Grant Park swimming pool; bids until Mch. 1. (See Machinery Wanted—Swimming Pool, etc.)

Ga., Columbus—Coaling Station—Central of Georgia Ry. Co., C. K. Lawrence, Chief Engr. let contract to Ogle Construction Co., 28 E. Jackson Blvd., Chicago, Ill. to construct 500 ton capacity coaling station, fireproof. (Lately noted.)

Ky., Fairview—Obelisk—Gen. William B. Haldeman, Pres., Jefferson Davis Home Assn. let contract to R. C. Clegg, Louisville, Ky. to construct remaining 175 ft. of tower for Jefferson Davis memorial; stone and concrete construction; \$48,000. (Supersedes recent item.)

Miss., Bay St. Louis—Pier—Hancock County, Board of Supvgs. let contract to W. W. Hammons, Gulfport, Miss. to construct public ferry pier connecting Hancock with Harrison County across Bay of St. Louis.

Mo., Jefferson City—Tunnel—City, Paul C. Hunt, Mayor will reconstruct Miller St. tunnel and build extension at east end between Broadway and Washington; voted \$32,579.63 bonds. (Lately noted contemplated bond issue.)

N. C., Charlotte—Swimming Pool, etc.—Civitan Club interested in constructing swimming pool and stadium.

N. C., Rocky Mount—Swimming Pool—City will construct swimming pool; bids until Mch. 8; John P. Koch, Structural Consultant; J. W. Thurman, Chmn., Building Committee. (See Machinery Wanted—Swimming Pool.)

Okla., Ardmore—Storage Tanks—Sinclair

Crude Oil Purchasing Co. reported to erect ten 80,000 bbl. steel storage tanks in the Healdton field.

Okla., Nowata — Swimming Pool—City plans construction of swimming pool, work included in municipal park improvements. Address The Mayor.

Tex., Galveston — Loading Facilities—Humble Oil & Refining Co. will construct its own water station; equipment consists of storage tanks, skeleton loading rack etc.

Miscellaneous Enterprises.

D. C., Washington—Electrical Contractors—Franklin Electric Shop, 1215 I St., N.W., capital \$10,000, inceptd. by Frank P. Gilliam, Robert Morris and Wm. F. Franklin.

Fla., Miami — Incinerator, etc.—City Commn. vote Mch. 7 on following bond issues; construct incinerator building, \$30,000; garbage disposal plant, trucks and equipment, \$20,000; Southside fire station and equipment, \$25,000; dredging and deepening harbor, \$50,000; C. W. Murray, Director of Public Service. (Lately noted.)

Fla., West Palm Beach—Contractors—Newlon & Stephens, capital \$25,000, inceptd. with T. H. Stephens, Pres.; W. O. Newlon, V.-P. and Treas.

Ky., Ashland—Fire Fighting Equipment—City plans purchasing additional fire fighting equipment and fire station; estimated cost \$40,000. Address The Mayor.

Ky., Harlan—Laundry — Harlan Steam Laundry Co., capital \$15,000, inceptd. by D. C. Webster, F. C. and Allie Lay.

Ky., Lexington — Dairy — Co-operative Dairy Co., 152 Walnut St., (lately noted inceptd., capital \$12,000) organized with O. F. Troutman, Pres., Nicholasville, Ky.; W. B. Loughridge, Mgr., Lexington; has plant, install ice machine, etc.; present daily capacity 500 gal. raw whole milk.

Md., Baltimore—Construction—Enterprise Building Co., 232 St. Paul St., capital \$20,000, inceptd. by J. Henry, Mary E. and Wm. Henry Dewitz.

Md., Baltimore—Construction — Hayward Construction Co., 344 Equitable Bldg., capital \$60,000, inceptd. by Paul E. Borchertling, Thos. F. Duke and Harry Safranek.

Md., Baltimore—Motion Picture Films—Globe Film Service, 11 S. Gay St., capital \$20,000, inceptd. by Harry Mishkind, Louis Binder and Morris S. Snyder.

Md., Cumberland—Transportation—Interstate Motor Transportation Co., capital \$100,000, inceptd. by Daniel P. Cubbage, Sherman N. Shuck and C. Leroy Allamong.

Md., Frostburg—Fire Fighting Equipment—City, Olin R. Rice, Mayor will issue \$10,000 bond for purchase of fire truck, etc.

Mo., St. Louis—Printing—Cap-Keystone Printing Co., 1041 S. Vandeventer Ave. has a \$50,000 plant addition being erected by William S. Drozda Realty Co.; addition will double floor space of plant.

N. C., Asheville—Incinerators—City Commrs. will enlarge municipal incinerators, estimated cost \$40,000; bids opened Feb. 23; T. H. Schorpf, Purchasing Agt.; R. J. Sherrill, Commr. Public Works. (Lately noted to issue bonds.)

N. C., Kinston—Fire Fighting Equipment—City Contemplated increasing fire fighting equipment. Address The Mayor.

N. C., Wilmington—Films—Independent Film Production Co., capital \$100,000, inceptd. by Curtis M. Falkner, James Mett, Raftery and B. M. Muir.

N. C., Wilmington—Fire Fighting Equipment, etc.—City Commrs. authorized pur-

chase for fire dept. an additional 6 cylinder triple combination pumper, chemical engine and hose cart with self starter and standard equipment; pump to deliver 750 gals. against 120 net pressure; also erect steel tower for training, etc. (Lately noted.)

N. C., Winston-Salem—Laundry—Zinzen-dorf Laundry Co., Frank G. Dunklee, Prop., will erect laundry building, power house and cleaning plant; concrete and glass, daylight construction type; containing 24,525 sq. ft. floor space; install different laundry systems; estimated cost \$100,000.

S. C., Williamston—Potato Curing—S. M. Myers, Anderson County Agt. interested in establishing sweet potato curing plant.

Tenn., Chattanooga—Undertakers—Harry E. Chapman Co. increased capital from \$40,000 to \$50,000.

Tenn., Knoxville—Incinerators—City Commrs. plans installing incinerator; issued \$75,000 bonds.

Tenn., Memphis—Construction—Economy Building Co., capital \$10,000, incptd. by J. R. Gregory, H. E. Douglass and H. L. Barrus.

Tex., Dallas—Advertising—United Advertising Co., capital \$10,000, K. W. Bateman, Milburn Hobson and J. J. Adams.

Tex., Dallas—Lithographers—Exline & Exline Co. purchased site, will erect lithographing plant.

Tex., Fort Worth—Dairy—Tarrant County Co-operative Dairy Farmers' Assn. purchased established plant, capacity of more than 12,000 gals.; plans improvements; increasing capacity to 35,000 gals.

Tex., Mexia—Undertaking—Texas Undertaking Co., incptd. by J. M. Crawford, J. C. Sill and others.

W. Va., Martinsburg—Printing—Martinsburg Printing Co. will occupy tile construction building to be erected by Denis Kilmer, Spring St.

Miscellaneous Factories.

Ala., Birmingham—Shoes—Gibbs-Hargrove Shoe Co., incptd. with W. I. Gibbs, Prest.; W. L. Hargrove, V.-P.; E. S. Hargrove, Secy.-Treas.

Ala., Birmingham—Candy—Lewis-Robinson Candy Co., incptd. with A. L. Lewis, Prest.; M. S. Lewis, V.-P.; W. F. Robinson, Secy.-Treas.

Fla., Fort Pierce—Sugar Refinery—Gulf Sugar Corp., will erect 100-ton daily capacity sugar refinery; install machinery; steam power; let contract to Jamestown Electrical Engineering Corp., Fred B. Smith, Prest., Jamestown, N. Y., to install electrical equipment. (Lately noted.)

Fla., Inverness—Coca-Cola—Inverness Coca-Cola Bottling Co., plans erecting plant building.

Fla., Jacksonville—Paper Goods—Knight Brothers Paper Co., capital \$10,000, incptd. with J. W. Knight, Prest.; Clayton Carmichael, V.-P.; H. T. Knight, Secy.-Treas.

Fla., Jacksonville—Tents, etc.—Jacksonville Tent & Awning Co., capital \$200,000, incptd. with Thos. E. Nunn, Prest.; Carter Hough, Jr., 1st. V.-P. and Gen. Mgr.; W. R. Frazier, Secy.-Treas.

Ga., Macon—Creamery—Macon Creamery, Harry McManamy, Owner, established plant to mfr. butter, etc., install 2000-gal. capacity churn; use other equipment from Kinnett and Odom Ice Cream Companies.

Ga., Savannah—Clothing—Progress Mfg. Co., capital \$20,000, incptd. by A. and L. Shapiro.

Ky., Lexington—Shoes—Hill Potter Shoe Co., capital \$15,000, incptd. by Benjamin F. and Taunton P. Hill, and Edwin F. Potter.

Ky., Louisville—Butter—Whole Butter Co., capital \$25,000, incptd. by Leo H. Weber, F. H. Scott and Chas. Zehnder.

La., Baton Rouge—Creamery—Purity Creamery Co., incptd. with T. H. Daigre, Prest.; Henry Kneipp, V.-P.; Walter D. Landry, Secy.-Treas.; L. Anthon, Gen. Mgr.; purchased plant of Capital City Creamery Co.; will install creamery machinery to mfr. cream cheese, butter, etc.

La., New Iberia—Egg Case and Filler—Southern Egg Case & Filler Co., New Orleans, will occupy 150x75 ft. building to be erected; will transfer machinery from New Orleans' plant to mfr. egg cases.

La., New Iberia—Straw Board—Charles Boldt Paper Mills, Max Zimmerman, Mgr., will expend about \$15,000 to install additional machinery to mfr. heavier grade of straw board; increase daily capacity about 15 tons.

La., New Orleans—Creamery—Louisiana-Mississippi Creamery is erecting building; will install machinery; E. P. Miller, Wesson, Miss., interested.

Md., Baltimore—Clothing—Robert Clothes Co., 110 E. Lexington St., capital \$25,000, incptd. by Daniel J. Maylor, Derlin A. McKindless and Chas. W. Hand.

Md., Baltimore—Drugs, etc.—Aromo Mfg. Co., 740 W. North Ave., capital \$100,000, incptd. by Arthur W. Smith, Albert Paltieloff and Norris Bernstein.

Md., Baltimore—Ice Cream—Hendler Creamery Co., 1100 E. Baltimore St. will expend \$20,000 to erect 2-story 153x53.7% ft. brick construction building.

Md., Baltimore—Paints, etc.—White Co., 206 Water St., capital \$100,000, incptd. by G. M. Stengler, Isaac and Earl A. Constam. (Lately noted.)

Md., Baltimore—Pyroxylin Products—Celulose Products, 1119 Fidelity Bldg., incptd. by Edward M. and Edward H. Hammond, and R. Bennett Darnell.

Mo., Jefferson City—Egg Cases—Fruin-Colon Construction Co., St. Louis, Mo., awarded contract to erect strawboard mill and remodel Hays Wood Products Co.'s building; install machinery to mfr. patent egg cases; contracts let for machinery for strawboard plant; Julian G. Wolfner, interested.

Mo., Jefferson City—Soft Drinks—Capitol Brewery Co., will expend several thousand dollars to install machinery to bottle soda water, root beer, etc.

N. C., Lenoir—Creamery—Caldwell County Co-operative Creamery Co., W. J. Lenoir, secured creamery property; purchased machinery; will install to mfr. creamery products. (Lately noted incptd.)

N. C., Statesville—Traveling Bags—Brown Bag Co., capital \$100,000, organized with F. L. Johnson, Prest.; Jas. P. Flannigan, V.-P.; Jesse M. Brown, Secy.-Treas. (Lately noted.)

N. C., Wilkesboro—Creamery—Wilkes Co-operative Creamery, organized with H. H. Jennings, Prest.; J. M. Gorman and R. B. Pharr.

N. C., Winston-Salem—Bakery—O'Brien Baking Co., let contract to Peterson Oven Co., Chicago, Ill. to install white enamel brick oven in bakery; increase plant baking capacity to 1500 loaves at time.

S. C., Columbia—Syrups, etc.—Sunny Brook Products Corp., incptd. with D. B. T. Dell, Prest.-Treas.; G. Y. Remer, V.-P.; W. A. Clarkson, Secy.

S. C., Greenwood—Creamery—Greenwood Creamery Co., F. M. Allen, Mgr., increased capital from \$4000 to \$10,000; has established plant to mfr. ice cream, butter, etc. (Lately noted Greenwood Ice Cream Co.)

S. C., Lake City—Bottling—Lake City Coca-Cola Bottling Co., capital \$25,000, incptd. by T. J. Cottingham, J. T. Robertson and A. A. Munn.

Tenn., Blount County—Creamery—Chamber of Commerce, J. L. Clark, Maryville, Tenn., interested in establishing creamery.

Tenn., Blountville—Candy—V. T. Candy Co., capital \$15,000, incptd. by A. C. Minton, A. E. Walker and R. L. Kiser.

Tenn., Chattanooga—Creamery—Judge Sam A. Conner interested in establishing creamery.

Tenn., Memphis—Cakes—Drennan Cake Co., leased 2-story and basement brick construction building; will improve and install machinery to make cakes.

Tenn., Nashville—Ice Cream—Union Ice Cream Co., plans erection 3-story brick construction ice cream plant.

Tex., Cleburne—Ice Cream—S. H. Staling, Waco, Tex., purchased plant of Seely Ice Cream Co.; improve and install additional machinery.

Tex., El Paso—Batteries—Midstate Battery Co., J. B. Long, Representative, Oklahoma City, plans expending \$15,000 to establish plant to mfr. batteries.

Tex., Houston—Creamery—Quality Creamery Co., capital \$75,000, incptd. by F. C. and A. C. Jackson and R. I. Moses.

Tex., Houston—Red Roller Bit Co. increases capital from \$250,000 to \$300,000.

Tex., Houston—Tents, etc.—A. F. Kattman Tent & Awning Co., A. F. Kattman, V.-P. and Gen. Mgr., 209 Crawford St., increased capital to \$40,000; formerly Kattman & Kneeland Tent Co. (Lately noted.)

Tex., Marshall—Cheese—Chamber of Commerce interested in establishing cheese factory

Tex., San Angelo—Coca-Cola—Coca-Cola Bottling Works, L. W. Walker, Owner-Mgr., let contract to Hugh H. Myers, at \$12,740 to erect 2-story brick and hollow tile construction bottling plant.

Tex., San Antonio—Trunks—Simon Trunk Co., capital \$15,000, incptd. by F. D. Harold M. and Mrs. Nellie Simon.

Tex., Snyder—Tannery—Smith and Hamer purchased site; will erect tannery.

Va., Richmond—Bakery—Nolde Bros., G. H. Nolde, Prest., 306 N. 26th St., let contract to Jas. Fox & Sons, 25th and Franklin Sts., to erect plant addition; 2-story and part basement 91x59 ft.; McCormick & Co., Archt., Century Bldg., Pittsburgh, Pa.

Va., Richmond—Ice Cream—Horn Ice Cream Co., Henry W. Hofferbert, Prest., 446 N. Asquith St., Baltimore, Md., will erect 3-story and basement 100x76 ft. branch plant; K. W. Schantz, Archt., 78 Main St., Buffalo, N. Y. (Lately noted.)

W. Va., Kanawha City, P. O. Libow—Sheet Glass—Libbey-Owens Sheet Glass Co., Charleston, W. Va., is expending about \$200,000 to improve plant; construct additional unit to factory power plant; 1-story 40 ft. high; brick structure; install triple engines to generate power; mfrs. window glass.

W. Va., Nitro—Beta-Naphthol—Southern Dyestuffs Co., will install equipment in five buildings already erected, to mfr. and develop beta-naphthol; first intermediate for mfr. of dyestuffs; complete unit every 90 days; one unit having been completed; production of entire plant will be 100 standard intermediates for dyestuff; employ 200 men.

Motor Cars, Garages, Tires, Etc.

Ga., Columbus—Filling Station—Woco-Pep Agency, 9th Ave. and 5th St. let contract to

W. C. Whitaker to erect filling station; E. G. Evans, Archt., Birmingham, Ala.

Ky., Ashland—Garage—City contemplate erecting garage for road construction materials; appropriated \$1550 for site; Fred Gesling, County Engr.

Ky., Louisville—Garage—E. H. Banks, Frankfort and Keats Ave. purchased building, will remodel for garage.

Ky., Owensboro—Garage—Owensboro Buick Co., Harry E. Bleich and Joe P. Day, contemplate erecting garage, fireproof construction; plan purchasing 350x170-ft. site.

Md., Baltimore—Repairing—Automotive Machine Co., 1123 Maryland Ave., capital \$25,000, inceptd. by John F. Dirzuweit, Hugh J. Barker and Robert E. Knode.

Md., Cockeysville—Garage—Cockeysville Garage, capital \$25,000, inceptd. by Dr. Daniel W. Smith, Harry H. Shank and Ulysses G. Bishop.

Miss., Meridian—Garage, etc.—Hancock & McArthur, Contrs. purchased site, reported to erect garage and storage rooms.

Mo., Kansas City—Garage—M. J. McTernan reported to erect \$350,000 garage, reinforced concrete construction, capacity, 600 motor cars; has 75x268 site; Edgar P. Madorie, Archt.

Mo., St. Louis—Garage—Eug-Lede Co., Euclid and Laclede Aves. will erect 3 story 100x200-ft. fireproof garage, estimated cost \$120,000; install complete garage equipment, space for 400 cars; W. E. Mills, Archt.

N. C., Asheville—Motors—Plemmons Motor Co., capital \$100,000, inceptd. by Raymon L. Plemmons, R. M. Wendell and B. S. Colburn.

N. C., Roanoke Rapids—Motors—Joyer Motor Co., capital \$25,000, inceptd. by W. F. Joyner and P. M. Brown, Roanoke Rapids; L. G. Shell, Rosemary, N. C.

S. C., Greenville—Automobiles—Penny-Busick Co. will occupy 100x150-ft. brick and stone building, to be erected by Jones McCrorey; W. P. Ortale Co., Contr.; Beacham & Legrand, Archts. (Previously noted.)

S. C., Greenville—Garage, etc.—Jones McCrorey, 319 Laurens St. let contract to W. P. Ortale Co., 310 Masonic Temple to construct 100x150-ft. auto sales room and garage, ordinary construction, tar and gravel roofing, concrete and mosaic tile floor; \$35,000; Beacham & Legrand, Archts., Finlay Bldg.

Tenn., Bethpage—Garage—Bradley & Parker will erect garage building, equip for all repair work.

Tex., Amarillo—Automobile Supplies—McDonald Auto Supply Co., 717 Park St. (lately noted inceptd., capital \$20,000) organized with C. M. Humphries, Prest.; E. E. McDonald, Secy.-Treas. and Mgr.; auto supplies and equipment. (See Machinery Wanted—Automobile Supplies etc.)

W. Va., Wheeling—Automobiles—Warren Auto Trading Co., 1411 Main St. will erect 2 story and basement 60x125-ft. semi-fireproof building; Frank N. Warren, Archt. (Lately noted.)

Railways.

Ala., Mobile—Gulf Ports Terminal & Railroad Co. proposes to build extension from present terminus in Baldwin County to Blakely Island at a cost of about \$550,000. Application made to the Interstate Commerce Commission for authority to build. Henry McLaughlin, Pensacola, Fla., is chief owner and contractor.

La., New Orleans—Trans-Mississippi Terminal Co. proposes to make extensive track improvement soon. E. J. Lampert, New Orleans, is Supt.

N. C., Wilmington—Wilmington Industrial Railway Co., authorized capital \$100,000; proposes to build 3 mi. line from the shipyards at Wilmington southward along the Cape Fear River. Prest., James Owen Reilly; Secy.-Treas., Wm. G. Broadfoot; other directors being John L. Beeton, R. F. Johnson, George Honnet and Henry J. Sullivan, of Baltimore, Md.

Okla., Burbank—Santa Fee System, it is reported, will begin construction immediately of a 3½ mi. spur from a point 1½ mi. north of Burbank to DeNoya in the Osage County oil field. C. F. W. Felt is Ch. Engr. at Chicago, Ill.

Okla., Cameron—Company reported incorporated with \$250,000 capital to build a railroad from Cameron to coal mines at Tahona, about 10 mi. Chamber of Commerce may be able to give information.

Okla., Henryetta—Oklahoma-Southwestern Railway Co., while contemplating construction of an extension from Nuyaka to Henryetta, has not actively begun work on it and possibly it will be two or three months before construction actually starts. W. Matthews is V.-P. and Ch. Engr. at Oklahoma City, Okla.

Okla., Pawhuska—Santa Fe System, it is reported, will build a 30 mi. line from Pawhuska to Owen, Okla. Right of way obtained. C. F. W. Felt, is Ch. Engr. at 80 East Jackson St., Chicago, Ill.

Okla., Vinita—St. Louis-San Francisco Railroad reported contemplating extension from Vinita 20 mi. to coal mines of Central Coal & Coke Co. Survey in progress. F. G. Jonah is Ch. Engr. at St. Louis, Mo.

Road and Street Construction.

Ala., Anniston—Calhoun County will grade, drain and surface 4 mi. Anniston-Jacksonville road from Camp McClellan to Jacksonville; chert, gravel, slag, shale or water bound macadam; bids until Mch. 16; W. H. Hanna, Prest. County Commrs. (Lately noted inviting bids Jan. 28. (See Mch. Wanted—Road Construction.)

Ala., Birmingham—City let contract to Dunn Construction Co., at \$16,000 to pave 13th St.; A. J. Hawkins, Engr.

Ala., Cullman—State Highway Comsn., Montgomery, Ala. will construct road from Morgan county line and extending 8.02 mi. towards Cullman; 21,014 cu. yds. crushed stone; 84,692 sq. yds. bituminous surfacing; Cullman County; bids until Mch. 22; W. S. Keller, State Highway Engr., Montgomery. (See Mch. Wanted—Road Construction.)

Ala., Decatur—State Highway Comsn., Montgomery, Ala. will construct 10.1 mi. road from Hartselle to Cullman county line in Morgan County; 106,672 sq. yds. bituminous surfacing; bids until Mch. 22; W. S. Keller, State Highway Engr., Montgomery. (See Mch. Wanted—Road Construction.)

Ala., Florence—State Highway Comsn., Montgomery, Ala. will construct Rogersville road; 12 mi.; cost \$140,000; will let contract.

Ala., Guntersville—State Highway Comsn., Montgomery, Ala. will construct 18.16 mi. road between Guntersville and Boaz; State Trunk Route H; 191,758 sq. yds. surfacing asphalt macadam, bitulithic, penetration macadam on crushed stone base; Marshall County; bids until Mch. 21; W. S. Keller, State Highway Engr., Montgomery, Ala. (See Mch. Wanted—Road Construction.)

Ala., Wetumpka—State Highway Comsn., Montgomery, Ala. will construct 7.256 mi. road from Judkins Ferry to Wetumpka; Elmore County; bids until Mch. 22; W. S. Keller, State Highway Engr., Montgomery, Ala. (See Mch. Wanted—Road Construction.)

Ark., Little Rock—Southern Trust Co. interested in grading streets and extending water and gas lines in Chesterfield Square to be developed.

Ark., Mena—Tailhina-Mena Highway Dist. let contract to Western Construction Co., Little Rock, Ark. for constructing 15 mi. hard-surfaced road from Mena to Oklahoma line.

Ark., Paragould—Street Improvement Dist. No. 3 will construct 17,500 sq. yds. paving; 14,000-ft. curb and gutter; etc.; cost \$75,000 to \$80,000; W. R. Heagler & Sons, Engrs. (Lately noted.)

Ark., Pine Bluff—Commrs. Paving Dist. No. 49 and Curb and Gutter Dist. No. 10 will receive bids until Feb. 25 at office of Nixon, Levine and Nixon, 117½ Main St. for paving 14,372 sq. yds. gravel pavement; 9709 lin. ft. combined concrete curb and gutter; Guest Engineering Co., Engr. (See Machinery Wanted—Paving.)

Ark., Texarkana—City plans paving Hickory, Pecan, Beech, Locust and County Aves. cost \$200,000. Address The Mayor.

Fla., Brooksville—Hernando County Commrs. will reshape and rebuild base and treat with bituminous material Road No. 5 from Brooksville north; Spring Lake road from Brooksville south toward Dade City; Spring Hill road No. 108 south from Brooksville toward Aripeka; bids until Mch. 6; H. C. Mickler, Clk. See Mch. Wanted—Road Construction.)

Fla., Chipley—City will construct 25,000 yds. asphaltic concrete or concrete pavements; 40,000 sq. yds. concrete sidewalks and 10,000 lin. ft. concrete curb and gutter; bids until Mar. 10; Eb Standerfer, Clk.; O. H. Lang, Const. Engr., Moultrie, Ga.

Fla., Crawfordville—Wakulla County Commrs. will vote Mar. 28 on \$200,000 bonds for road construction.

Fla., Jacksonville—City Comsn., Frank H. Owen, Chrmn. will lay 2992 sq. yds. tile sidewalks; bids until Mch. 16. (See Mch. Wanted—Paving.)

Fla., Kissimmee—Osceola County, Lake Wilson Dist. Precinct No. 10 voted \$80,000 bonds for road construction. Address County Commrs.

Fla., Miami—City, Chas. W. Murray, Director of Public Service and Welfare will pave streets; \$300,000; construct sidewalks; \$50,000.

Fla., Pensacola—City, Geo. Hinrichs, Commr. plans street paving; concrete; \$150,000.

Fla., Sanford—Seminole County Commrs. will sell \$98,500 bonds for resurfacing and relaying roads and build drawbridge.

Fla., Sebring—Town, A. E. Lawrence, Mayor let contract to McDonald Construction Co., Lakeland, Fla., at \$113,310 for paving 4 mi. streets including Mango, Lemon, Poinsettia, etc.; 43,000 sq. yds.; H. S. Jaudon Engineering Co., Const. Engr., Elberton, Ga. (Lately noted inviting bids.)

Fla., Titusville—Brevard County Commrs. will improve Dixie highway; \$650,000 available; will invite bids.

Fla., West Palm Beach—John S. Phipps let contract to Greynolds & Monroe, at \$60,000 for sidewalks, curbs and streets in El Sid development including 50-ft. streets with 24-ft. rocked and oiled surface.

Ga., Athens—City will pave Whitehall road from junction of Milledge Ave. and Lumpkin St.; also Prince Ave.; build bridge over Oconee river St. and pave portion of Danielsville road; vote on \$50,000 bonds; J. W. Barnett, City Engr. (Lately noted.)

Ky., Frankfort—State, Edwin P. Morrow, Governor will vote in November on \$50,000.

000 bonds for building 40,000 mi. state highway system in next five years.

Ky., Grayson—Carter County will sell \$50,000 road and bridge construction bonds; Arthur Jarvis, Clk. Fiscal Court.

La., Monroe—Ouachita Parish Police Jury will construct 3 mi. road from Bosco to Ouachita-Caldwell line connecting with hard-surface highway in Caldwell parish; etc.; build several bridges; cost \$25,000.

Md., Frostburg—City, Olin R. Rice, Mayor plans street paving; cost \$150,000.

Miss., Hattiesburg—Forrest County will construct $\frac{1}{2}$ mi. brick paved roads between beats 2 and 3; bids until Mar. 6. Address Supvrs.

Miss., Laurel—Jones County Supvrs. let contract to A. G. Pool & Son, Meridian, Miss., \$49,410 for constructing 9.7 mi. Jackson highway north from Laurel to Jackson county line.

Miss., Lucedale—George County Supvrs. let contract to K. C. Lumber Co. to rebuild Lucedale-Latonia highway; also to S. R. and W. W. Howard for Federal Aid Project 14 and 43.

Miss., Natchez—Adams County will vote Mar. 7 on \$40,000 bonds for constructing hard-surfaced road from Washington to Leesdale; John N. Campbell, Prest. Supvrs.

Miss., Pittsboro—Calhoun County let contract to Tate & Co. for constructing hard-surfaced road connecting with new road in Webster to Pontotoc county line; concrete and steel bridges; contract for surfacing will be let later; total cost \$600,000.

Mo., Bloomfield—State Highway Dept., Jefferson City, Mo. will construct 4.50 mi. State road from Cairo to Poplar Bluff; cost \$46,813.20; Stoddard County; Federal Aid Project 118, Section A; M. S. Murray, Div. Engr., Sikeston, Mo.

Mo., Boonville—State Highway Dept., Jefferson City, Mo. will construct 3.314 mi. State road from Boonville eastward and westward; cost \$14,961.61; Cooper County. State Aid Project 20.97; bids until Mar. 10; S. M. Rudder, Div. Engr., Sedalia, Mo. (See Mch. Wanted—Road Construction.)

Mo., California—State Highway Dept., Jefferson City, Mo. will construct 6.402 mi. State road from California northward; cost \$25,743.05; Moniteau County, State Aid Project 20.94; bids until Mar. 8; S. M. Rudder, Div. Engr., Sedalia, Mo. (See Mch. Wanted—Road Construction.)

Mo., Cassville—State Highway Dept., Jefferson City, Mo. will construct 3.231 mi. State road from Purdy southward; cost \$9367; Barry County, State Aid Project 20.142; bids until Mar. 9; H. P. Moberly, Div. Engr., Woodruff Bldg., Springfield, Mo. Lately noted.

Mo., Huntsville—State Highway Dept., Jefferson City, Mo. let contract to A. P. Munson, Marion Ia., at \$37,932 for constructing state highway between Huntsville and Clifton Hill.

Mo., Ironton—State Highway Dept., Jefferson City, Mo. will construct 9.619 mi. State road from Ironton to Glover; cost \$81,564.31; 7.075 mi. State road from Glover to Sabula; cost \$81,724.25; 3.387 mi. State road from Ironton to Piedmont; cost \$34,777.51; all Federal Aid Projects 105; bids until Mar. 3; M. S. Murray, Div. Engr., Sikeston, Mo. Lately noted. (See Mch. Wanted—Road Construction.)

Mo., Kansas City—City let contract to J. E. Welch, at \$54,885 for concrete paving on Southwest boulevard; Thomas Phillips, Prest. Board Public Works.

Mo., Maryville—State Highway Dept., Jefferson City, Mo. will construct 3.872 mi. State road from Maryville south and west; cost \$32,531.43; Nodaway County, State Aid

Project 20.120; bids until Mar. 9; A. C. Lingley, Div. Engr., St. Joseph, Mo. Lately noted. (See Mch. Wanted—Road Construction.)

Mo., Poplar Bluff—City, E. C. Nickey, Engr. plans concrete street paving; cost \$100,000; bids about April 1. Lately noted. (See Mch. Wanted—Paving.)

Mo., Waynesville—State Highway Dept., Jefferson City, Mo. will construct 3.494 mi. State road from Dixon southward; cost \$12,607.72; State Aid Project 20.138; 4.448 mi. State highway from Waynesville southwestward; cost \$12,617.70; State Aid Project 20.137; both Pulaski County; bids until Feb. 28; H. D. Griffith, Div. Engr., DeSoto, Mo. (See Mch. Wanted—Road Construction.)

N. C., Asheville—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 2.3 mi. hard-surface road between Craggy and branch road to Leicester on Route No. 20; Buncombe County, Project 903; bids Mch. 15. Lately noted. (See Mch. Wanted—Road Construction.)

N. C., Columbus—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 6 mi. hard-surface road from Columbus to South Carolina line on Route No. 19; Polk County, Project 866. Lately noted. (See Mch. Wanted—Road Construction.)

N. C., Concord—Cabarrus County Comms. sold \$250,000 bonds for road and bridge construction. (Lately noted.)

N. C., Franklin—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 14 mi. soil road from Franklin to Georgia State line on Route No. 286; Macon County, Project 902; bids Mch. 15. (See Mch. Wanted—Road Construction.)

N. C., Greensboro—Guilford County Highway Comsn. let contract to R. G. Lassiter & Co., at \$116,694.97 to construct 5.6 mi. road between Gibsonville and Kernodle's Mill; 5-in. concrete base and 2-in. Topeka surface.

N. C., High Point—City, J. W. Hedrick, Mayor will construct 50,000 sq. yds. sheet asphalt, bitulithic, bituminous concrete or other pavements; bids until Mar. 2; Taplin & Perkins, Conslt. Engrs. (See Mch. Wanted—Paving.)

N. C., Jefferson—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 9.5 mi. soil road from Jefferson to Wilkes county line on Route No. 68; Ashe County, Project 711; bids until Mch. 15. Lately noted. (See Mch. Wanted—Road Construction.)

N. C., Kenansville—Duplin County let contract to E. W. Jordan, Warsaw, N. C. for constructing sand-clay roads; sold \$100,000 bonds; Jas. J. Bowden, Clk. Comms.

N. C., Lenoir—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 4.6 mi. soil road from Alexander county line toward Lenoir on Route No. 75; Caldwell County, Project 724; bids until Mch. 15. Lately noted. (See Mch. Wanted—Road Construction.)

N. C., Lenoir—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 6.7 mi. hard-surface road between Lenoir and Catawba county line on Route No. 16; Lincoln County, Project 647; bids until Mch. 15. Lately noted. (See Machinery Wanted—Road Construction.)

N. C., Marshall—Madison County Comms. will sell \$150,000 road construction bonds; J. Will Roberts, Secy.

N. C., Monroe—Union County Comms. will sell \$250,000 bonds for road and bridge construction; M. C. Long, Clk.

N. C., New Bern—Board of Education, A. A. Kafer plans street improvements in Ghent Park, and Metcalfe sections, Broad and East Front St. extensions; etc.; 30 blocks.

N. C., Sanford—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 6 mi. soil road from Moore county line to Carthage-Sanford road; Lee County, Project 445; bids until Mch. 15; changed date from Feb. 24. Lately noted. (See Mch. Wanted—Road Construction.)

N. C., Sanford—Town, C. L. Gunter, Clk. will construct 60,000 sq. yds. asphalt or other pavement; 30,000 lin. ft. curb and gutter; 4000 sq. yds. sidewalk; storm water drains, etc.; bids until Mar. 7; Gilbert C. White Co., Engr., Durham, N. C. (See Mch. Wanted—Paving.)

N. C., Scotland Neck—State Highway Comsn., Raleigh, N. C. will construct road between Scotland Neck and Rich Square; bids in March.

N. C., Sylva—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 11 mi. macadam road between Dillsboro and Swain county line on Route No. 10; Project 954, both Jackson County; bids Mch. 15. Lately noted. (See Mch. Wanted—Road Construction.)

N. C., Taylorsville—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 2.5 mi. soil road from Caldwell county line toward Taylorsville on Route No. 75; bids until Mar. 15; Alexander County, Project 601. Lately noted. (See Mch. Wanted—Road Construction.)

N. C., Warrenton—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 5 mi. soil road from Warrenton to Liberia on Route No. 58; Warren County, Project 492; bids until Mar. 15. Lately noted. (See Mch. Wanted—Road Construction.)

N. C., Wentworth—N. Carolina State Highway Comsn., Raleigh, N. C. will construct 7 mi. hard-surface road from Wentworth to Reidsville on Route No. 65; Rockingham County, Project 588; bids until Mar. 15. Lately noted. (See Mch. Wanted—Road Construction.)

Okla., Ardmore—State Highway Dept., Oklahoma City Okla. approved construction of road from Carter county line to Sulphur.

Okla., Cement—Cement Township, Caddo County will vote Mar. 7 on \$49,000 bonds for constructing about 5 mi. crushed rock roads; Wm. Cobb in charge. Lately noted. Address Chamber of Commerce, Cement, Okla. (See Machinery Wanted—Paving Equipment.)

Okla., Erick—Erick Township, G. B. Everett, will build 14 mi. sand-clay roads; \$30,000 available; bids opened; R. N. Higgin, Engr. See Mch. Wanted—Gravel or Stone.)

Okla., Ponca City—City, Harry Cragin, Mayor let contract to M. R. Amerman, Wichita, Kans., at \$37,500 to pave $5\frac{1}{2}$ blocks, brick, sand cushion, asphalt filler, concrete base construction; J. P. Rickard, Engr. (Lately noted.)

Okla., Purcell—City plans paving streets. Address The Mayor.

Okla., Sayre—City, W. E. Simmonds, Clk. let contract to Pearce Construction Co., Edmond, Okla., at \$107,500 for constructing 28,000 sq. yds. 6-in. concrete pavement; V. V. Long & Co., Engrs., Oklahoma City. (Lately noted inviting bids.)

S. C., Columbia—Richland County will hard-surface road from Columbia to Kershaw county line; bids in June; gravel 7 mi. road to Sumter; bids in about April 1. Address county Comms.

S. C., Darlington—Darlington County will construct 9.598 mi. Darlington-Bishopville

road; 23,617 cu. yds. sand-clay surfacing; bids until Feb. 24; F. A. Project 143; W. S. Lewis, County Engr. (See Mch. Wanted—Road Construction.)

S. C., Walterboro—Colleton County will construct 12.123 mi. Walterboro-Branchville road between city limits of Walterboro and Bells Cross Roads; 29,831 cu. yds. sand-clay surfacing; bids until Feb. 28; P. M. Buckner, County Supvrs. (See Mch. Wanted—Road Construction.)

Tenn., Knoxville—City will pave Dawson place; cost \$6000; E. W. Neal, Mayor.

Tex., Bastrop—Bastrop County let road contracts as follows: R. G. Buckner & Sons, Cleburne, Tex., at \$62,572.53 for 9.68 mi. Highway No. 20; W. C. Moore, Smithville, Tex., at \$32,718.30 for 8.8 mi. Highway No. 20 between Lee County line and Road Dist. No. 7 line; J. B. Pierce, County Judge. (Supersedes recent item.)

Tex., Bonham—Fannin County plans constructing Ravenna road and other roads in Honey Grove Dist.; \$300,000 available; A. P. Bolding, County Judge; A. J. Goode, County Engr.

Tex., Bonham—Fannin County, Windom-Dodd City Road Dist. will sell \$70,000 bonds for road construction. Address Comms. Court.

Tex., Brenham—Washington County let contract to Smith Bros., Crockett, Tex., at \$21,500 for 6 mi. concrete paving on Austin-Houston highway through city of Brenham; G. A. Beach, County Engr.

Tex., Center—Shelby County plans surfacing 12.7 mi. Highway No. 22; 16,718 cu. yds. gravel; cost \$45,500; J. B. Burns, County Judge; T. H. Dillon, County Engr.

Tex., Clarksville—City plans additional street paving. Address The Mayor.

Tex., Coleman—State Highway Dept., Austin, Tex. will let contract for constructing 22.4 mi. Highway No. 23 in Coleman County; 16-ft. gravel road; cost \$348,000; W. E. Dickerson, County Engr. (Lately noted.)

Tex., Dallas—City let contract to Central Bitulithic Co., at \$90,411.93 to pave Maple Ave. from Wolf to Throckmorton Sts.; at \$7,828.47 for paving Austin St. from Jackson to Young Sts.; Geo. D. Fairtrace, City Engr.

Tex., Dallas—Dallas County Comms. Court will invite bids on paving S. Lamar St.; cost \$138,084.11; M. G. James, Secy.

Tex., Decatur—Wise County will regrade 20 mi. Meridian highway and build about 40 bridges and culverts; cost \$100,000; W. D. Paschall, County Judge; L. W. Taylor, County Engr. (Lately noted.)

Tex., Denison—City plans paving; D. C. Lipscomb, City Engr.

Tex., El Paso—El Paso County plans widening 3 mi. Highway No. 33 from 12 to 18-ft.; concrete base and bituminous wearing surface; 12,640 sq. yds.; cost \$35,000; 7.7 mi. Highway No. 33; concrete; 82,100 sq. yds.; cost \$225,000; E. B. McClintock, County Judge; L. A. White, County Engr.

Tex., Fort Worth—City, E. R. Cockrell, Mayor will vote in April on \$100,000 gutter repair, \$200,000 paving repair and \$325,000 new paving bonds.

Tex., Georgetown—Williamson County will construct 5.9 mi. 16-ft. gravel road on Highway No. 20; cost \$40,000; F. D. Love, County Judge; R. A. Nichols, County Engr.

Tex., Groveton—Trinity County will construct 17.8 mi. 16-ft. gravel road on Highway No. 19; cost \$200,000; will invite bids; Fred J. Berry, County Judge; W. J. Kelly, County Engr. (Lately noted. (See Mch. Wanted—Road Construction.)

Tex., Houston—City plans voting on \$750,-

000 bonds for street paving. Address Mayor Holcombe.

Tex., Laredo—Webb County let contract to Haden & Austin, 727 Kress Bldg., Houston, Tex., at \$48,433.92 for surfacing 8 mi. Highway No. 2 and No. 12. (Lately noted inviting bids.)

Tex., La Grange—Fayette County let contract to Starkey & Smith, 303 Stewart Bldg., Houston, Tex., at \$13,003.44 for 3.21 16-ft. gravel road on Highway No. 3. (Lately noted inviting bids.)

Tex., Livingston—Polk County will construct Highway No. 35 from Livingston to Trinity river; bids until Feb. 24; W. C. Youngs, County Engr. (See Mch. Wanted—Road Construction.)

Tex., McKinney—Collin County let contract to McCoy & Richards, Arlington, Tex., and J. S. Allen & Son, at \$40,000 to construct 25 mi. highway in Celina, Plano and Rock Hill Dist.

Tex., Orange—Orange County will vote Mar. 18 on \$700,000 bonds for road construction. Address County Comms.

Tex., Richmond—Fort Bend County will construct 4.5 mi. Missouri City-Hobby road; cost \$18,000; 8.5 mi. Highway No. 3; cost \$42,500; C. D. Meyers, County Judge; Gurley & Gurley, County Engrs.

Tex., Robstown—City voted \$40,000 bonds for concrete paving on Main Ave., and graveling of 15 additional blocks. Address The Mayor. (Lately noted to vote.)

Tex., Tyler—State Highway Dept., Austin, Tex. will let contract for constructing 7.4 mi. Highway No. 11 in Smith County; Project No. 197-B.

Tex., Wichita Falls—State Highway Dept., Austins, Tex. will let contract for constructing 8.2 mi. Highway No. 2; 18-ft. concrete road; Project 262. (Lately noted.)

Va., Danville—City, Ralph K. Linville, Engr. will pave Stokes St., Berryman Ave. and other streets with asphaltic concrete on 4-in. concrete base; Craghead St. with durax block; Grove, Chesnut, Loyal and other streets; sheet asphalt over present paving; Lynn St., asphaltic concrete on 6-in. concrete base; cost \$185,539; bids until Mar. 7. (See Mch. Wanted—Paving.)

Va., Graham—town will construct concrete street; cost about \$40,000. Address The Mayor.

Va., Norfolk—City, Chas. E. Ashburner, Mgr. let contract to F. J. McGuire, Bankers Trust Bldg., at \$233,000 for constructing 78,000 sq. yds. sheet asphalt paving. Lately noted.)

W. Va., Lewisburg—State Highway Dept., Charleston, W. Va. let contract to Sutton Construction Co., Ashland, Ky., at \$319,310 for constructing 14½ mi. road in Greenbrier County; Project 77. (Supersedes recent item.)

W. Va., Logan—Logan County will pave Monitor Junction to Holden road with one course cement concrete pavement 18-ft. wide; Monitor Junction to Cora bridge 1.5 mi.; Cora bridge to Holden, 2.1 mi.; bids Mar. 10; T. J. Wysong, County Clk. (See Mch. Wanted—Paving.)

W. Va., St. Albans—City will grade, pave and improve streets; vote Feb. 25 on \$60,000 bonds; Wm. D. Davis, Mayor.

Sewer Construction.

Ala., Birmingham—City will construct sanitary sewers (Improvement Ordinances No. 169-D, 171-D and 173-D); bids opened; A. J. Hawkins, City Engr.

Ark., Paragould—Paragould Street Improvement Dist. No. 3 will expend from \$75,000 to \$80,000 to install storm sewers, curbs, gutters; also pave streets; construct 500 ft. headers; lay 17,000 ft. 12 to 18-in. pipe; W. R. Heagler & Sons, Engrs. (Lately noted.)

Fla., Miami—City, Chas. W. Murray, Box 34, Director Public Service & Welfare, will expend \$200,000 to install sewer system; 8 to 24-in. terra cotta pipe; also expend about \$100,000 to install sewage disposal plant; vote March 7 on bonds.

Ga., Leesburg—City will improve sewerage and water systems; vote on \$30,000 bonds; J. B. McCrary Co., Engr., Atlanta, Ga.

Ky., Ashland—City, Mayor Salisbury, plans expending \$250,000 to extend sewer system. (Lately noted voted bonds.)

La., Covington—City contemplates purchasing sewerage and water systems of St. Tammany Ice & Mfg. Co., and extend at approximate cost \$125,000; Henry A. Mentz, Engr.; Xavier A. Kramer, Const. Engr., Magnolia, Miss. (Lately noted.)

La., Ponchatoula—City plans installing sewer and water systems. Address The Mayor.

La., Winnsboro—Town will vote first week in Apr. on \$80,000 sewerage and water bonds; Xavier A. Kramer, Const. Engr., Magnolia, Miss.

Md., Baltimore—City, Wm. F. Broening, Mayor, plans expending \$250,000 to install complete sanitary sewer system at Govans; Henry G. Perring, Ch. Engr.

Md., Frostburg—City, Olin R. Rice, Mayor, will install sanitary sewers; will issue \$25,000 bonds. (Previously noted.)

Mo., Odessa—City will construct sewerage and water systems; voted \$100,000 bonds. Address The Mayor.

Mo., St. Joseph—City, E. Marshall, Mayor, will extend sewer mains; plans voting Apr. 11 on \$795,000 bonds.

Mo., St. Louis—City, Louis P. Aloe, Prest. Board of Aldermen, will reconstruct sewers; plans voting Aug. 1 on \$4,000,000 bonds.

N. C., Fayetteville—City, E. R. MacKethan, Mayor, will extend sewer and water systems; vote in May on \$300,000 bonds.

N. C., Kernersville—Town, O. L. Joyner, Secy.-Treas., plans expending \$90,000 to install water and sewer systems; construct deep wells; install pumps, etc.; Carolina Engineering Co. Engr., Wilmington, N. C.; contemplates voting on bonds.

N. C., Lexington—City, Mayor Leonard, will extend sewers. (Lately noted.)

N. C., Sanford—Town, W. H. Fitts, Mayor, will improve sewer and water lines, and pave streets; lay 6,500 ft. storm water drains; bids until March 7; C. L. Gunter, City Clk.; Gilbert C. White Co., Const. Engr., Durham, N. C. (See Machinery Wanted—Sewer Mains.)

N. C., Taylorsville—City contemplates installing sewer and water systems; Carolina Engineering Co., Engr., Wilmington, N. C.

Okla., Carter—City will install sewer and water systems; V. V. Long & Co., Engrs., 1300 Colcord Bldg., Oklahoma City.

Okla., Erick—City will install sewerage system including disposal plant; bids until March 1; H. G. Olmstead, Engr., Tradesman Bank Bldg., Oklahoma City.

Okla., Oklahoma City—City, Warren E. Moore, Commr. Public Works, plans con-

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

structing 50 extensions to existing sewerage system; varying from 405 to 2,762 ft.; approximate cost \$1,098,000. (Lately noted voted on bonds.)

Tex., Dallas—City, Chas. Davis, Mayor let contract to Smith Bros. Construction Co., at \$271,625.27, to construct storm sewer and sanitary sewer on Pacific Ave.; Geo. D. Fairtree, City Engr. (Lately noted bids until Jan. 27.)

Tex., Dallas—City, Sawnie Aldredge, Mayor, will construct sanitary sewers; vote Apr. 4 on \$100,000 bonds.

Tex., Fort Worth—City, E. R. Cockrell, Mayor, will improve storm sewers; vote in Apr. on \$25,000 bonds.

Tex., Houston—City, O. F. Holcombe, Mayor, plans voting on \$250,000 sanitary sewer bonds.

Tex., Kerrville—S. B. Cowell, Chmn. Building Board, American Legion Memorial Sanatorium, San Antonio, Tex., will construct sewerage and disposal plant at sanatorium; bids until March 6; Phelps & Dewees, Archts., Gunter Bldg., San Antonio. (See Machinery Wanted—Sewers, etc.)

Tex., Robstown—City will install sewerage system and disposal plant; voted \$40,000 bonds. Address The Mayor. (Lately noted to vote.)

W. Va., Bluefield—City will extend sewer system to Bowling Addition. Address The Mayor.

W. Va., Huntington—City, Mat Miser, Commissioner Streets and Sewers, will construct lateral sewer in alley between Staunton and Winters Road and 30th St.; bids until Feb. 27; A. B. Maupin, City Engr. (See Machinery Wanted—Sewers.)

Street Railways.

Fla., Miami—City Commission has authorized construction of a street railway loop for the Municipal Railway.

Tenn., Memphis—Memphis Street Railway Co. has closed agreement with the city to extend the cross town line and also build two links. T. H. Tutwiler is Prest. & Gen. Mgr.

Telephone Systems.

N. C., Elkins—Horton Telephone Co. purchased Mount Airy exchange; will improve and operate Elkin, North Wilkesboro, Mount Airy, Ronda and Booneville exchanges under one system.

Tex., Gonzales—Gonzales Telephone Co., J. W. Vernon, Secy.-Mgr. will erect 2 story 34x36-ft. fireproof building; install telephone switchboard, etc., estimated cost \$17,000. (Lately noted.)

Textile Mills.

Mo., St. Louis—Sweaters, etc.—Lincoln Knit Goods Corp., capital \$200,000, incptd. with E. W. Stewart, Prest.; will establish plant to mfr. sweaters, jerseys, etc.; install 125 knitting and 65 sewing machines; equipment for skein dyeing; 2 boilers developing 300 H.P.

S. C., Clinton—Shirtings—Lydia Cotton Mills, R. E. Ferguson, Supt., will install 118 new, 40-in. E model, Draper looms, to replace same number plain looms. (Lately noted.)

S. C., Gaffney—Yarn—Alma Mills, capital \$600,000, organized with W. C. Hamrick, Prest.; W. R. Tattersall, Supt.; formerly Cash Mills.

S. C., Landrum—Cotton Damask—Shamrock Damask Mills, D. R. Mallory, Treas., increases capital from \$20,000 to \$50,000.

S. C., Union—Hosiery—Excelsior Knitting Mills, W. S. Nicholson, Treas.; will install

about 5000 spindles; purchased machinery; electric power; daily output 6500 lbs. yarn; J. E. Serrine & Co., Engrs., Greenville, S. C., and Dallas, Tex. (Lately noted.)

Tenn., Chattanooga—Hosiery—Browning Hosiery Mills, D. P. Browning, Prest., 7 E. 16th St., increases capital from \$50,000 to \$99,500.

Tenn., Chattanooga—Yarns—Standard-Coosa-Thatcher Co., A. G. Thatcher, Prest., increased capital from \$5,000,000 to \$5,750,000.

Tenn., Jellico—Hosiery—Diamond Hosiery Mills, H. C. Stuart, Jr., Mgr., increased capital from \$100,000 to \$200,000; will improve plant; construct boarding room.

Water Works.

Ark., Batesville—City, John Q. Wolf, plans expending \$30,000 to install filtering plant.

Ark., Little Rock—Southern Trust Co., interested in extending water lines to Chesterfield Square, to be developed. (See Land Developments.)

Fla., Clermont—City let contract to J. B. McCrary Co., 3rd National Bank Bldg., Atlanta, Ga., to install electric pumps; erect 75,000-gal. steel storage tank; lay 2000 ft. 8-in. iron mains. (Lately noted.)

Fla., Haines City—Town, J. R. Yale, Clk., contemplates constructing water-works and lay mains; plans voting on \$50,000 bonds.

Fla., Seabreeze—Town contemplates installing water-works; construct softening plant; 75,000-gal. water tank on 125 ft. tower; pumping engine house; 6 driven wells; J. B. McCrary Construction Co., Engr., Atlanta, Ga.; estimated cost \$50,000.

Ga., Atlanta—City, J. L. Landers, Pur. Agt., will let contract to Case & Cothran and Nichols Contracting Co.; both Atlanta; and Renssaler Valve Co., New York; at \$621,055.51, pending approval of City Council, to construct 10,000,000-gal. reinforced concrete covered reservoir at Hemphill station, and other improvements; P. H. Norcross, Const. Engr., 1405 Chandler Bldg.; Zode Smith, Water-Works Supt. (Lately noted bids until Jan. 31.)

Ga., Leesburg—City will improve water and sewerage systems; vote on \$30,000 bonds; J. B. McCrary Co., Engrs., Atlanta, Ga.

Ga., Thomasville—City plans constructing water and light plant. Address The Mayor.

Ga., Thunderbolt—City will expend about \$5000 to construct water-works; invites bids. Address The Mayor.

Ky., Bowling Green—City plans expending \$47,584.80 to improve water-works; install 2 units, 4 cylinders each, semi-Diesel engine, 1 motor, generator and 2 pumps; contract let to Fairbanks, Morse & Co., Chicago, Ill.

La., Covington—City contemplates purchasing water and sewerage systems of St. Tammany Ice & Mfg. Co., and extend at approximate cost \$125,000; Henry A. Mentz, Engr.; Xavier A. Kramer, Const. Engr., Magnolia, Miss. (Lately noted.)

La., Covington—St. Tammany Ice, Light & Water Co., plans improving plant; Henry A. Mentz, Const. Engr., Magnolia, Miss.

La., Houma—City, H. M. Bourg, Mayor, plans constructing combined water-works filtration and electric light plant; vote March 21 on \$200,000 bonds.

La., Ponchatoula—City plans installing water and sewer systems. Address The Mayor.

La., Winnsboro—Town will vote first week in Apr. on \$80,000 water and sewerage bonds; Xavier A. Kramer, Const. Engr., Magnolia, Miss.

Md., Baltimore—City, Mayor Broening, will extend water-works; lay 20-in. main connecting northern suburbs with general system; lay main on Reisterstown Road to new city line; later construct feeder mains; construct main at Russell and Bush Sts.; \$2,500,000 available; Henry G. Perring, Ch. Engr.

Md., Frostburg—City, Mr. Stewart, in charge, contemplates constructing water-works addition; Norton & Whitman, Engrs., Munsey Bldg., Baltimore, Md.; Wm. Harvey, City Engr., Frostburg.

Miss., Pass Christian—City will extend water-works; vote on \$12,000 bonds. Address The Mayor.

Mo., Fulton—City plans expending \$20,000 to install additional machinery at water and light plant; temporary smokestack, water softener, super-heater and stoker, etc.; W. J. McCarroll, City Electrician.

Mo., Graham—City will install water-works; voted \$20,000 bonds. Address The Mayor.

Mo., Moberly—City let contract to Lynch & McDonald, to construct 1-story pumping station, filtration plant, dam and reservoir.

Mo., Odessa—City will construct water and sewerage systems; voted \$100,000 bonds. Address The Mayor. (Lately noted.)

Mo., St. Charles—City will construct water and electric light plant; plans voting on \$250,000 bonds. Address The Mayor.

N. C., Asheville—City, J. H. Shoepf, Pur. Agt., will lay water mains; 20,140 ft. 8 to 12-in. cast iron pipe; bids until Feb. 27; B. M. Lee, City Engr. Lately noted bids until Feb. 21. (See Machinery Wanted—Water Mains.)

N. C., Fayetteville—City, E. R. MacKethan, Mayor, will extend water and sewer systems; vote in May on \$300,000 bonds.

N. C., Kernersville—Town, O. L. Joyner, Secy.-Treas., plans expending \$90,000 to install pumps, etc.; Carolina Engineering Co., Engr., Wilmington, N. C.; contemplates voting on bonds.

N. C., Lexington—City, Mayor Leonard, plans expending from \$350,000 to \$400,000 to install water-works; lay 9-mi. pipe line to Yadkin River; erect pumping station and reservoir; enlarge mains. (Lately noted.)

N. C., Raleigh—City, T. B. Eldridge, Mayor, will construct 400,000,000-gal. capacity impounding reservoir; 600,000-gal. capacity steel tank; construct 1-mi. stave pipe line; will issue bonds.

N. C., Sanford—Town, W. H. Flitts, Mayor, will improve water and sewer lines, and pave streets; lay 14,000 lin. ft. 6 and 8-in. cast iron water mains; bids until March 7; C. L. Gunter, Clk.; Gilbert C. White Co., Const. Engr., Durham, N. C. (See Machinery Wanted—Water-Mains.)

N. C., Taylorsville—City contemplates installing water and sewer systems; Carolina Engineering Co., Engr., Wilmington, N. C.

Tenn., Chattanooga—City Water Co., L. H. Dixby, will increase capital \$638,300.

Okla., Blackwell—City, J. W. Morse, Mayor, will improve water-works; voted Feb. 21 on \$20,000 bonds.

Okla., Carter—City will install water and sewer systems; V. V. Long & Co., Engrs., 1300 Colcord Bldg., Oklahoma City.

Okla., Elk City—City will improve water-works; install 150,000-gal. tank; plans voting on \$150,000 bonds; H. G. Olmstead, Tradesman Bank Bldg., Oklahoma City.

Okla., Foss—City will improve water and electric light systems; H. G. Olmstead & Co., Engrs., Oklahoma City.

Okla., McAlester—City will construct 650x45 ft. dam, impounding 4,500,000-gals. water. Address The Mayor.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Okl., Sayre—City will expend about \$75,000 to improve and extend water and light plant; install filtration system, reservoir and 2 engines. Address The Mayor.

Okl., Vinita—City plans improving water-works; construct pumping station, and pipe line; install filtration system. Address The Mayor. (Previously noted.)

Tex., Ferris—City will install water-works; construct standpipe. Address The Mayor.

Tex., Fort Worth—City, J. C. Lord, Water Commr., plans constructing water main from Lake Worth.

Va., Ashland—City will extend mains to South Anna River; 3-mi. 6 to 8-in. pipe; construct 280,000-gal. tanks and towers; pumping plant at river; filter beds and settling basins; Ambler Engineering Co., Engr., Richmond, Va.; invites bids.

Woodworking Plants.

Ala., Mobile—Sash and Doors—Wolf-Alvarez Sash & Door Co., capital \$25,000 inceptd. with James F. Wolf, Prest.; Joseph T. Alvarez, V.-P.; and Warren Wolf, Secy.

Fla., Callahan—Baskets—P. L. Starbird purchased building, remodel for basket factory.

Fla., Jacksonville—Sash and Doors—Jacksonville Sash & Door Co. will occupy \$25,000 building to be erected by Halsema Investment Co.

Fla., Plant City—Furniture—Plant City Furniture Co., capital \$25,000, inceptd. with A. E. Graham, Prest.; J. E. Sumner, Secy.-Treas.

Ky., Corbin—Furniture—Hall-Watson Furniture Co., capital \$25,000, inceptd. by T. A. Watson, Corbin; W. L. Halland and E. Seilaz, both Knoxville, Tenn.

La., Baton Rouge—Ready-cut Houses, etc.—Coons Silo & Lumber Co., A. T. Prescott, has under construction plant to mfr. all kinds ready cut houses, silos, etc.

Md., Baltimore—Piano Players, etc.—C. B. Noon Co., 325 N. Charles St., capital \$750,000, inceptd. by Charles B. Noon, Carl M. Distler and R. Ellsworth Jones.

Miss., Hattiesburg—Boxes—J. H. Overstreet, Beaumont, Miss. acquired established box mfg. plant, will operate; J. O. Cox, Mgr.

Miss., Vicksburg—Furniture—Feld Furniture Co., capital \$60,000, inceptd. by M. D. Feld, David Block and others.

N. C., Greensboro—Furniture—Morrison-Neesse Furniture Co., capital \$50,000, inceptd. by F. C. Boyles, W. W. Morrison and Robert Chrismon.

N. C., Lansing—Flooring, etc.—Lansing Lumber Co., (lately noted inceptd., capital \$100,000) organized with J. U. Ballou, Prest.; V. E. Ballou, Secy.-Treas. and Mgr. has under construction 56x77-ft. building; install general planning mill mchy. bids about Mch. 1; mfr. hardwood flooring, coffins, tables, mill work, etc. (See Machinery Wanted—Planning Mill Equipment.)

N. C., Thomasville—Pins and Buttons—Thomasville Chair Co. remodel plant, adding 15,000 ft. floor space; install mchy. for mfr. of dowell pins and buttons.

Tenn., Knoxville—Tables, etc.—Knoxville Table & Chair Co., Ellis Talley, Prest., Proc. addition, will enlarge plant main building, day light construction type; increase capacity; mfr. tables and chairs.

W. Va., Buckhannon—Woodworking—C. E. Hines will erect planing mill; install wood-working mchy., boiler and engine. (See Machinery Wanted—Woodworking Machinery; Boiler; Engine.)

Fire Damage.

Ala., Dothan—Dothan Syrup Co.'s plant; loss \$75,000.

Ark., Clarendon—Moore & Bateman's 2 building; loss about \$10,000.

Fla., Clermont—Rev. J. C. Teter's residence.

Ga., Atlanta—Building owned by Grant Estate, Forrest and Geo. Adair, Agents.

Ga., Augusta—Mrs. Margaret Weed's building on Walton Way; loss \$10,000.

Ga., Plains—Timmerman & Wise's cotton warehouse annex; loss \$40,000.

Ga., Rome—Johnson School in Etowah aDist. Address Floyd County School Board.

Ky., Covington—Parker Building on E. Pike St. occupied by R. T. Pearce Co., Southern Paper Co. and branch postoffice; loss \$25,000.

Ky., Louisville—Kentucky Veneer Co.'s plant; loss \$80,000.

La., Southport, P. O. New Orleans—American Creosote Co.'s wharf, loss \$100,000.

Md., Hagerstown—J. Forney Young's barn, wagon shed, hay barracks, silo, etc. at farm on Mark Pike.

Md., Williamsport—Ripple Hotel; Harry Wishinger's store; Blaine Buchanan's residence.

Miss., Belzoni—Four-Mile School; loss \$16,000. Address School Board.

Miss., McComb—John White's residence; loss \$20,000.

Miss., Purvis—Lamar County Agricultural High School; J. H. Woods, Professor.

Miss., Wesson—Becker-Lyle-McGrath Co.'s building, loss \$10,000; J. E. Williams' 2 store buildings, \$14,000; Youngblood & Co.'s store and warehouse, \$15,000.

Mo., Mansfield—School building; loss \$20,000. Address School Board.

Mo., Kansas City—Hotel Muehlbach, S. J. Whitmore, Mgr.; loss \$50,000.

Mo., Kansas City—Swope Park Golf Club; loss \$15,000.

Mo., St. Louis—Frank H. Delow's residence at 550 Big Bend Rd., Webster Groves; loss \$12,000 to \$14,000.

Mo., St. Louis—Howard M. Cryder's residence at St. Charles Rock Rd. and Carson Rd., St. Louis County; loss \$20,000.

Mo., St. Louis—Leconter Bros.' Stair Co.'s brick building at 4513 Shaw Ave.; loss \$45,000.

Mo., St. Louis—Paul Schmidt Supply Co.'s grain elevator, 7828 Ivory Ave.; loss \$8,000.

Mo., St. Louis—Julius Seidel Lumber Co.'s plant at 2000 N. King highway, loss \$175,000.

Mo., St. Louis—Thomsen Planing Co.'s

plant at 1700 S. Vandeventer Ave.; loss \$75,000.

N. C., Burnsville—Yancey Collegiate Institute; loss \$60,000.

Okl., Ardmore—Ardmore Nut Co., plant, Jones Everett Machine Co.'s building; loss \$100,000.

Okl., Hartshorne—Golden Mercantile Co.'s warehouse.

Okl., Wister—American Theater operated by Gardner Bros.

S. C., Chapin—J. S. Wessinger & Sons' store; loss \$25,000.

S. C., Orangeburg—John H. Hydrick's residence, ginney and barn on St. Matthews Rd.; Chas. M. Dukes' residence about 7 mi. from Orangeburg; loss on latter, \$7500.

Tenn., Carthage—W. F. Cathern and Bulard-West's stores; Walter Keith's office building; R. G. Thompson's restaurant.

Tenn., Chattanooga—Johnny Dobb's residence; loss \$15,000.

Tenn., Chattanooga—Vesta Gas Range Co.'s pattern shop at Whiteside and 17th St.

Tenn., Greenville—MacMacklin Building on Lee St.; loss \$12,000.

Tenn., Greeneville—Willoughby School. Address County Board of Education.

Tenn., Shelbyville—Harry L. Woosley's residence; loss \$12,000.

Tex., Laredo—La Union Dry Goods Store, owned by Dodier Bros.; loss \$30,000.

Tex., Longview—J. N. Campbell's building; loss \$20,000.

Tex., Temple—Daniel & Jarrell Co.'s warehouse; loss \$20,000.

Tex., Waco—F. L. Carroll Chapel and Library at Baylor University; loss \$100,000; Dr. S. P. Brooks, Prest.

Tex., Wheeler—City Drug Co., Nat. Woford, M. McElhaney, Dink Hunt's building; City Barber Shop and City Cafe.

Va., Forest Depot—Duval Radford's residence, nr. Forest; loss \$10,000.

Va., Martinsville—Southerland Building occupied by M. Marks and others.

W. Va., Charleston—Zion Episcopal Church's Chapel; loss \$10,000. Address The Rector.

W. Va., Laurel Creek—James Coleman's residence.

W. Va., Lowsville—Everett Theater; Lee Marcus' store; Russell Fisher's garage; loss \$30,000.

W. Va., Ocean Mines—Elkhorn Coal Corp.'s store, mine, and office; loss \$25,000.

W. Va., Welch—Junior Pocahontas Coal Co.'s clubhouse and commissary near Welch.

W. Va., Wellsburg—Eagle Mfg. Co.'s stamping plant.

BUILDING NEWS

BUILDINGS PROPOSED

Apartment Houses.

Mo., Kansas City—C. E. Phillips will erect \$12,000 store and apartment building at 2300-02 E. 12th St.; 2 stories; brick.

Tenn., Memphis—G. B. Hamilton will erect \$12,500 apartment house at 1125 Dorothy St.; 2 stories; brick veneer.

Tenn., Memphis—R. L. Seig will erect 2 apartment houses at 354-56 N. McLean St.; 2 stories; brick veneer; cost \$17,000 each.

Tenn., Memphis—W. H. Derryberry will will erect \$25,000 apartment house on Linden Ave.; 2 stories; brick; 4 suites; 40x84 ft.; Sieg & McDaniel, Archts.; construction by owner.

Tex., Clarksville—R. L. Taylor will erect 2-story apartment house; 20 rooms.

Tex., Dallas—I. Goldsmith will erect \$40,000 store and apartment building at 901-9 Second St.; 2 stories; brick.

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Tex., Galveston—Joseph St. Mary will erect \$32,000 apartment house; 28x90 ft.; tile and concrete; asbestos built-up roof; concrete floors; gas steam heat, \$1500; hollow fireproof tile; interior tile; ventilators; Paul G. Silber & Co., Archts., 331 Bedell Bldg., San Antonio, will open bids about Apr. 1. (Lately noted.)

W. Va., Charleston—A. Mickel and brother will erect \$14,000 building on Washington St., between Ruffner Ave. and Beauregard St.; 2 stories; brick and tile; 55x68 ft.; 3 stores and 3 apartments.

W. Va., Charleston—H. M. Mariani will erect \$10,000 apartment house on Randolph St., between Maryland and Ohio Aves.; 2 stories and basement; 20 rooms; 40x80 ft.; brick and tile.

Association and Fraternal

Ala., Birmingham—Negro Masons of Alabama, W. T. Woods, R. B. Hudson and A. A. Peters, Comm., will erect temple; cost \$150,000 or more; 3 stories; stores on first floor; lodge rooms and assembly hall above.

La., New Orleans—Grand Lodge of Louisiana, F. & A. M., Jno. A. Davilla, Grand Secy., will erect temple at St. Charles and Perdido Sts.; 100x170 ft.; limestone and terra cotta facing; cost about \$2,250,000; Sam Stone, Jr., Archt. (Previously noted.)

S. C., Columbia—Columbia Aerie of Eagles, John A. Young, H. J. Basler and others, Bldg. Comm. will erect home in 1200 block of Assembly St.; 3 stories; brick.

Tenn., Memphis—Al Chymia Temple, Nobles of the Mystic Shrine, Buford M. White, Potentate, will erect \$725,000 temple.

Tenn., Memphis—United Order of Odd Fellows, colored, R. W. Wells, Chrmn. Bldg. Comm., will erect building at Beale Ave. and Turley St.; 42x100 ft.; 5 stories; fireproof; electric elevator; W. T. Bailey, Archt.

Tex., Brenham—Rotary Club is promoting plan to erect \$18,000 building for American Legion and other organizations.

Tex., San Antonio—Elks Lodge will erect \$350,000 building at Pecan and Navarro Sts.; 7 stories; Phelps & Dewees, Archts.

W. Va., Charleston—Council No. 771, Knights of Columbus, Judge A. P. Hudson, Prest., Edw. H. Daulton, V.-P. of Bldg. Assn. will erect building; cost about \$200,000; 5 or 6 stories.

Bank and Office.

Fla., Sanford—John Meisch and A. P. Connelly will erect \$150,000 office building; 6 stories; 108x100 ft.; fireproof; steel frame; brick walls; cinder, concrete and composition floors and roof; steam heat; D. G. Zeigler, Sons & Co., Archts., Columbia, S. C.; plans and specifications will be completed about March 15.

Fla., St. Petersburg—R. H. Sumner will erect office building at Central Ave. and 7th St.; 5 stories; stores on first floor; offices above; Edgar Ferdon, Archt.

Md., Baltimore—Mercantile Savings Bank, 13 Guilford Ave., will alter building at Fayette St. and Park Ave.; convert first floor for banking space; install 1 or 2 store rooms, with entrance on Park Ave., probably make slight changes in upper stories for renting space; details not definitely decided; Geo. Schmidt, Archt., American Bldg.

Mo., Kansas City—Saml. L. Hoffman will erect building at 13th and Oak Sts.

Tenn., Sparta—C. P. Hutcheson and D. C. Carson will erect 2-story brick building at Main and Biles Sts.; business rooms on first floor; offices above.

Tex., West Columbia—Guaranty State Bank, E. C. Parker, Prest., will erect \$20,000 building; 1 story; 50x90 ft.; brick and concrete; gravel roof; concrete floors; hollow fireproof tile; interior tile; metal doors; vaults; wire glass; ventilators; steel sash and trim; Louis Glover, Archt., 526 Binz Bldg., Houston; bids opened. (Lately noted.)

W. Va., Bluefield—Bluefield Nat'l. Bank Paul McIlhany, Cashr., will erect building or remodel present structure.

Churches.

Ala., Mobile—Church of The Redeemer, Geo. Quint, C. McC. Hopkins and C. W. Wachenfeld, Bldg. Comm., will improve church and Sunday school building.

Ark., Paragould—First Baptist Church, Rev. B. L. Bridges, Pastor, will erect building at N. 3rd and Poplar Sts.; cost \$60,000.

Ark., Van Buren—First Methodist Church plans to erect annex. Address The Pastor.

D. C., Washington—Twelfth Street Christian Church will erect \$20,000 building at 12th and S Sts.; 40x60 ft.; brick and steel; slag roof; concrete and hardwood floors; steam heat; electric lights; rolling partitions; ventilators; address W. R. Metz, Archt., 14 Crescent Pl., Takoma Park; bids opened. (Lately noted.)

Fla., Live Oak—Methodist Church, Rev. W. A. Myers, Pastor, will erect building.

Ga., Atlanta—Capitol View Baptist Church is considering erecting building. Address the Pastor.

Mo., Kirksville—First Presbyterian Church will erect \$40,000 building. Address The Pastor.

N. C., Charlotte—Tenth Ave. Presbyterian Church, Rev. Daniel Iverson, Pastor, will erect Sunday school addition.

N. C., Greensboro—Temple Emanuel will erect \$75,000 synagogue at Wainman and Florence Sts.; brick stuccoed; slate roof; low pressure steam heat; hardwood floors; Hobart B. Upjohn, Archt., 5952 Grand Central Terminal, New York, will open bids in March.

Okla., Kingfisher—First Christian Church, Rev. E. B. Shively, Pastor, will erect \$50,000 building; brick and stone; complete building, including memorial windows, furniture, seating, etc. to cost \$65,000; architect not selected; bids opened June 1; E. H. Pemberton, Chrmn. Bldg. Comm., Kingfisher Bldg. & Loan Assn. (Lately noted.)

Okla., Stillwater—Episcopal Church will erect church and community building. Address The Rector.

S. C., Charleston—First Presbyterian Church will erect Sunday school building. Address The Pastor.

Tenn., Knoxville—First Church of Christ, Scientist, C. L. Peckinpough, Second Reader, will erect \$10,000 building; 35x52 ft.; brick veneer; built-up felt roof; wood floors; steam heat; electric lights; day work. (Lately noted.)

Tex., Waco—Austin Ave. Methodist Church, Rev. Dr. R. E. Goodrich, Pastor, J. R. Milam, Chrmn. Bldg. Comm., will expend \$100,000 to enlarge building.

W. Va., Charleston—Church of God, 6th Ave., Rev. J. W. Lykens, Pastor, will erect building on Florida Ave.

City and County.

Fla., Miami—Municipal Building, etc.—City, W. B. Moore, Clk. of election, will vote March 7 on \$700,000 bond issue, including \$30,000 to erect municipal building and addition to city hall, \$25,000 for Southside fire station and equipment, \$75,000 for addi-

tional buildings, equipment and elevators for city hospital; \$25,000 for comfort stations and equipment and \$30,000 for incinerator building.

Fla., St. Petersburg—Kindergarten—City Commrs. are considering calling election on \$135,000 bond issue, including \$35,000 to erect kindergarten building; Commrs. Woodside, Cunningham and Burnside, Comm.

Ga., Atlanta—Cyclorama Building—J. N. Landers, City Purchasing Agent, City Hall, will receive bids until March 1 to complete cyclorama building at Grant Park; plans and specifications and other information from office of J. F. Downing, Archt., 908-9 Healey Bldg. (Lately noted.)

Mo., Kansas City—Clubhouse—Board of Park Commissioners, Thos. C. Harrington, Secy., will rebuild Swope Park Golf Club noted burned; cost \$30,000.

Mo., St. Joseph—City Hall, etc.—City will vote Apr. 11 on \$3,400,000 bond issue, including \$750,000 for city hall, \$240,000 for fire department, \$195,000 for hospital for contagious diseases, \$240,000 for soldiers memorial, \$390,000 for museum and \$45,000 for repairs to police station. Address The Mayor.

N. C., Lenoir—Home—Caldwell County sold \$51,000 bonds for county home; general assembly authorized sale of \$75,000 bonds for this purpose; J. S. Seagle, W. J. Lenoir and others, Bldg. Comm.

Tex., Slaton—City Hall—City, R. J. Murray, Mayor, will erect \$20,000 city hall; 50x80 ft.; brick; composition roof; concrete and wood floors; architect not selected. (Lately noted.)

Va., Lynchburg—Stadium—City will erect \$110,000 stadium; 420x318 ft.; reinforced concrete; seat 10,000; Boyd A. Bennett, City Engr., Box 51; construction by City Dept. of Public Works.

Courthouses.

Fla., Cross City—Dixie County Commrs. called election on \$35,000 bonds to erect courthouse and jail. (Previously noted.)

Ga., Arlington—Calhoun County plans to erect courthouse. Address County Commrs.

La., New Iberia—Police Jury of Iberia Parish, Paul Bassin, Secy., will receive bids until March 8 to remodel courthouse; plans and specifications on file at office of Mr. Bassin and obtainable from J. W. Smith, Archt., Monroe, La. (Previously noted.)

N. C., Carthage—Board of Commrs. of Moore County, H. P. McPherson, Chrmn., will receive bids until March 21 at office of Register of Deeds to erect courthouse; cost \$150,000; 3 stories; 65x121 ft.; fireproof; reinforced concrete, brick and stone; composition roof; tile, hardwood and concrete floors; hollow fireproof and interior tile; ornamental terra cotta; separate bids for general contract; steam heating; plumbing and fixtures; steel and wood furniture, document files and equipment; plans and specifications at offices of E. C. Matheson, Register of Deeds, Carthage; Chamber of Commerce, Charlotte; Builders Exchanges, Atlanta, Ga. and Columbia, S. C. and C. Gadsden Sayre, Archt., Anderson, S. C. and Raleigh, N. C. (Lately noted.)

Okla., Buffalo—Harper County will vote March 13 on \$100,000 bond issue to erect courthouse; fireproof. Address Clanie Anderson. (Lately noted.)

Dwellings.

Ala., Birmingham—I. C. Beatty will erect \$18,000 residence at 3630 Clairmont Ave.; brick veneer and tile.

Ala., Birmingham—Mrs. Virginia Belle Jenkins will erect \$10,000 residence on 31st St., Chestnut Hill.

Ark., Little Rock—Dr. O. K. Judd will erect residence at 7th and Center Sts.; cost \$10,000 to \$12,000.

D. C., Washington—B. H. Gruver will erect 3 dwellings at 3545-49 11th St., N. W.; cost \$24,000; 2 stories; brick; construction by owner.

D. C., Washington—Harry A. Kite will erect 6 dwellings at 741-51 Irving St., N. W.; cost \$30,000; 2 stories; brick; construction by owner.

D. C., Washington—Middaugh & Shannon, Inc. will erect 5 dwellings and garages; cost \$87,500; brick; slag roofs; oak floors; hot water heat; plans and construction by owners, who are taking sub-bids.

Fla., Chuluota—A. S. Nunemaker will erect \$10,000 residence; fireproof; D. G. Zeigler, Sons & Co., Archts., Columbia, S. C.

Fla., Havana—O. B. Harrison will erect residence on Main St.

Fla., Jacksonville—O. V. Becklenburg, 2556 St. Johns Ave. will erect \$12,000 residence, lately noted under Stores; 38x76 ft.; frame; asbestos shingle roof; gum floors; gas heat; electric lights; R. von Becklenburg, Archt.; construction by owner. (See Machinery Wanted—Shingles; Millwork.)

Ga., Macon—Cecil Morgan will erect \$10,000 residence on Laurel Ave., North Highlands; colonial design; 8 rooms; hardwood floors; steam heat; Curran R. Ellis, Archt.

Ky., Louisville—Court Boles will erect \$10,000 residence at 1503 Edgewood St.

La., Shreveport—J. E. Johnson, Jr. will erect 3 dwellings and garages at 2826 Darien, 2931 Frederick and 2921 Catherine Sts.; cost \$14,250; 1 story; frame.

Md., Baltimore—B. Wood Burch, 123 E. Fayette St., will erect \$15,000 residence at 102 Ridgewood Rd., Roland Park; 10 rooms; stucco and hollow tile; Roy G. Pratt, Archt., American Bldg.

Md., Baltimore—J. Elmer Weishelt, 8 Light St., will erect 14 two-story frame dwellings on Ravenwood Ave., nr. Cleveland Ave.; cost \$40,000.

Md., Baltimore—Mueller Const. Co., Gunther Bldg., will erect 9 dwellings at 200-16 University Parkway; cost \$60,000; 2½ stories.

Md., Baltimore—Westphal & Shoenhals, Park Bank Bldg., will erect 7 dwellings at 1901-13 E. 20th St. and 3 at 1901-5 N. Wolfe St.; cost \$33,000; 2 stories; brick.

Mo., Kansas City—A. F. Seested will erect residence at Gillham Rd., Rockhill Ter. and 45th St.

Mo., Kansas City—A. P. Nichols will erect 5 dwellings at 5809, 11, 15, 17 and 19 Wabash Ave.; cost \$15,000.

Mo., Kansas City—J. O. Wade will erect 3 dwellings at 4225, 31 and 33 Mercer St.; cost \$15,000.

Mo., Kansas City—W. H. Launder will erect 19 dwellings; cost \$19,000.

Mo., St. Louis—L. Baylor Pendleton will erect residence at Wyndown Ter. and Demun Ave.; 3 stories and basement; colonial design; tile bath rooms; marble floor in hall; billiard room in basement; garage for 2 cars.

N. C., Greensboro—C. H. Kline will erect residence on Wharton St.; 2 stories; Dutch colonial design.

S. C., Abbeville—E. R. Thomson will erect brick dwelling; Jas. C. Hemphill, Archt., Greenwood.

Tenn., Knoxville—A. R. Felden will erect 4 dwellings on E. Vine Ave.; cost \$15,000.

Tenn., Knoxville—W. H. Curtis will erect 4 dwellings at 2627, 31 Woodbine Ave. and 2521, 54 Virginia Ave.; cost \$11,000.

Tenn., Memphis—Bertha S. Bond will erect \$10,000 residence at 717 S. McLean St., 8 rooms.

Tenn., Memphis—Miss Clyde Trevaton will erect \$10,800 residence at 1813 Carr St.; 8 rooms; brick veneer.

Tenn., Memphis—O. P. Hurd will erect residence on East Parkway, south.

Tenn., Memphis—Rudolph Sondheimer will erect \$50,000 residence on Kenilworth Pl.

Tenn., Memphis—D. Dermon will erect 5 dwellings at 667, 71, 77, 81 and 87 Melrose St.; cost \$27,500; 6 rooms; brick veneer.

Tex., Dallas—Dallas Housing Co. will erect 8 frame cottages; cost \$20,000; 5 rooms.

Tex., Dallas—Power Investment Co. will erect 16 four-room cottages, 1 five-room and 1 six-room cottage; cost \$36,500; frame.

Tex., Gonzales—Methodist Church, South, will erect \$15,000 parsonage. Address The Pastor.

W. Va., Huntington—C. L. Harshbarger will erect \$15,000 residence; 10 rooms; brick; slate roof; W. F. Diehl, Archt., Robson-Prichard Bldg.

W. Va., Huntington—Geo. I. Neal will erect \$45,000 residence; 10 rooms; brick; tile roof; Meanor & Handloser, Archts., Robson-Prichard Bldg.

W. Va., Huntington—R. R. Steele will erect \$18,000 residence; creosote shingle roof; clapboard siding; hot water heat; oak finish; A. F. Dickey, Archt., First Natl. Bank Bldg.

W. Va., Huntington—C. H. Watzel will erect \$35,000 residence; 9 rooms; brick; slate roof; Meanor & Handloser, Archts., Robson-Prichard Bldg.

W. Va., Logan—F. L. Landstreet will erect \$10,000 residence; 9 rooms; W. F. Diehl, Archt., Robson-Prichard Bldg., Huntington.

W. Va., Martinsburg—Chas. Walton will erect 6 dwellings on Illinois Ave.; frame; cost \$3000 to \$3500 each; construction by owner.

Government and State.

Md., Hagerstown—Post Office—Treasury Dept., Jas. A. Wetmore, Acting Suprv. Archt., Washington, D. C., will receive bids until March 15 to erect extension to post office; drawings and specifications from custodian of site or from office of Suprv. Archt.

Tenn., Nashville—Memorial Building and Capitol Annex—Tennessee Memorial Comsn., Hill McAllister, Chrmn. Sub. Com., will erect memorial and capitol annex buildings; cost \$2,000,000; Edw. F. Dougherty, Archt., Nashville; Dr. Warren P. Laird, Suprv. Archt., University of Pennsylvania, Philadelphia. (Previously noted.)

Hospitals, Sanitariums, Etc.

Fla., Miami—City, W. B. Moore, Clk. of Election, will vote March 7 on \$700,000 bond issue, including \$75,000 for additional buildings, equipment and elevators for city hospital. (See City and County.)

Md., Baltimore—Church Home and Infirmary will erect service building; cost about \$450,000; 6 stories and 2 basements; 56x126 ft. up to third floor, 80x90 ft. above third floor; fireproof; concrete, steel and brick; boiler rooms, refrigerating plant, mechanical and electrical shops, food storage rooms, laundry, kitchen, dining room, maternity

department, operating rooms, medical laboratories, X-ray department, etc.; Wyatt & Nolting, Archts., Keyser Bldg.; Frainie Bros. & Haigley, 18 Clay St., probable contrs. (Lately noted.)

Mo., St. Joseph—City will vote Apr. 11 on \$3,400,000 bond issue, including \$195,000 for hospital for contagious diseases. (See City and County.)

Mo., St. Joseph—State will erect building to replace structure burned at loss of \$100,000 at State Hospital No. 2; Siemans & Ornhold, Archts.

N. C., Greensboro—Guilford County will erect \$100,000 tuberculosis hospital; J. W. Crane, Chrmn. Finance Comm.; Harry Barton, Archt. (Lately noted.)

N. C., Shelby—Number 6 township voted \$100,000 bond issue to erect hospital; W. H. Jennings, Chrmn. Board of County Commrs.; R. L. Weathers, Clk. (Lately noted.)

N. C., Wilmington—James Walker Memorial Hospital will erect \$50,000 nurses' home; accommodate 50; Jas. B. Lynch, Archt. (Previously noted.)

Okla., Pawhuska—City Commrs., C. M. Hirt, City Clk., will receive bids until March 1 to erect \$65,000 municipal hospital; 85x38 ft., with extensions, front and rear; fireproof; clay tile roof; cement, tile and marble floors; vapor vacuum steam heat; city lights; passenger elevator; John O. Bradley & Co., Archts., 208-09 P. O. Bldg. (Previously noted.)

Okla., Pawhuska—City Commrs. will receive bids until Mch. 1 to erect \$65,000 hospital; fireproof; concrete; tile roof; accommodate 29 patients; John O. Bradley, Suprv. Archt. (Previously noted.)

Tenn., Nashville—Board of Managers of Davidson County Tuberculosis Hospital will receive bids until Feb. 25 at office of Asmus & Clark, Archts., 634 Stahlman Bldg., to erect children's building at Tuberculosis Hospital on Buena Vista Pike; stucco; stone foundation; composition shingle roof; hardwood floors; steam heat; city lights. (Previously noted.)

Tex., San Marcos—Hays County will erect Soldiers and Sailors' Memorial Hospital; cost \$30,000; Smith & Kelly, Archts., San Antonio. Address Chamber of Commerce, San Marcos. (Previously noted.)

W. Va., Huntington—Dr. C. M. Hawes will erect \$25,000 addition to hospital; 30x100 ft.; brick; composition built-up roof; store room on first floor; hospital rooms above; metal ceiling in store; A. F. Dickey, Archt., First Natl. Bank Bldg.

Hotels.

Ala., Attalla—Business Men's Club is promoting erection of 40-room hotel.

Ala., Huntsville — Yarbrough Bros. will erect hotel at Holmes and Washington Sts.; 4 stories; 60 rooms.

Fla., Plant City—Ebe Walters, Jr., is considering erecting hotel; cost \$30,000; 2 stories; stucco; 44 rooms; 17 baths.

Mo., Kansas City—Street Hotel Co., R. S. Street and others, will remodel 3-story brick building at 18th St. and Paseo for hotel; 100 rooms.

S. C., Spartanburg—Frank C. Hodges will complete Finch Hotel on E. Main St.

Va., Bristol—J. C. Fuller will erect addition to Tenneva Hotel; 30 bed rooms, barber shop and sample room.

Miscellaneous.

Ark., Dixie Landing—Clubhouse—Big Bend Hunting & Fishing Club, Joe Thompson, Prest.,

Memphis, Tenn., acquired 2000-acre site at Dixie Landing and will erect clubhouse; logs and timber; Mahan & Broadwell, Archts., Memphis.

Ky., Louisville—Clubhouse—Louisville Turngemeinde, Daniel Groth, Prest., will erect clubhouse; cost \$30,000; fireproof.

Ky., Louisville—Clubhouse—Standard Club will erect addition to clubhouse; cost \$40,000.

La., New Orleans—Market—Chas. F. Buck and others are reported to erect building to be known as Prytania Street Market; Sam Stone, Jr., Archt., 714 Union St., will supervise construction. (Lately noted).

Mo., Kansas City—Clubhouse—University Club, H. P. Treadway, Prest., Rockhill Manor, will erect clubhouse at 9th and Baltimore Aves.; 2 stories and basement; 100x120 ft.; brick and terra cotta; McKecknie & Trask, Archts., Gloyd Bldg.

Mo., Lincoln—Clubhouse—Lincoln Woman's Club plans to erect clubhouse; cost \$100,000.

N. C., Hickory—Clubhouse—Hickory Country Club will erect clubhouse; also construct 9-hole golf course; E. S. Draper, Landscape Archt., Charlotte, N. C.; Donald Ross, Consult. Archt., 459 7th Ave., New York. (Previously noted).

Tenn., Greeneville—Orphanage—Southern Methodist Orphanage Board, Rev. J. A. Burrows, Chrmn., Chattanooga, plans to erect dormitory.

Tex., Waco—Funeral Establishment—F. M. Compton will erect addition to and improve building at 11th and Austin Sts. for warehouse, garage, morgue, sleeping quarters for employees, etc.; cost \$12,000; brick; E. Melver Ross & Co., Archts.

Va., Richmond—Clubhouse—Seven Pines Battleground Country Club, Incptd. with \$50,000 capital; O. E. Parrish, Prest.; W. R. Talley, Secy.

Railway Stations, Sheds, Etc.

Mo., Kirksville—Missouri Public Service Co. directed Washburn Ry. Co., A. O. Cunningham, Ch. Engr., St. Louis, to erect freight depot, remodel passenger station, lay trackage, etc.; cost \$44,000.

Schools.

Ala., Gadsden—City Council annulled ordinance under which city voted \$250,000 5 per cent school bonds and will probably resubmit 6 per cent issue. Address The Mayor.

Ala., Lipscomb—County Board of Education, Birmingham, will erect grammar school at Gordon Heights; 7 rooms; brick

Ala., Montgomery—Montgomery County Board of Revenue, D. C. Allen, Prest., will erect school at Capitol Heights; cost \$50,000; 7 classrooms, auditorium, library; brick; galvanized shingle roof; rift pine floors; vacuum vapor heat; electric lights; bids opened March 13; C. Frank Galliher, Archt., 701 First Natl. Bank Bldg. (Lately noted).

Ala., Selma—City, W. B. Hall, Mayor, voted \$150,000 school bonds to include \$80,000 to erect junior high school, \$15,000 for improvements to negro schools, etc. (Lately noted.)

Ark., Mena—Mena Special School Dist. Trustees will erect high school; cost \$50,000; rough stone; tin or galvanized shingle roof; metal ceilings; wood floors. (Lately noted.)

Ark., Newport—School Board, T. G. Gregg, Prest., will receive bids until March 10 to erect addition to East Newport School; sev-

eral classrooms, cloak and lunch rooms, etc.; separate bids for plumbing, heating plant and electric wiring; plans and specifications at office Sanders & Gnocchio, Archts., Urquhart Bldg., Little Rock. (Lately noted).

D. C., Washington—St. John's College will erect addition.

Fla., Anthony—Marion County Board of Public Instruction, H. G. Shealy, Secy., Ocala, will receive bids until March 14 to erect school; plans and specifications at office E. C. Hosford, Archt., Lakeland, and superintendent of public instruction, Ocala.

Fla., Miami—Dade County Board of Public Instruction called election March 21 in Special Tax School Dist. No. 2 on \$200,000 bonds to complete schools at Allapattah and Orange Glade, etc.

Fla., Oviedo—City voted \$20,000 bonds to erect school; 2 stories; 4 rooms and auditorium to seat 500. Address Board of Public Instruction. (Lately noted.)

Fla., Winter Park—Phi Alpha Fraternity at Rollins College will erect \$30,000 frat house.

Ga., Cave Spring—Floyd County School Board, Rome, will consolidate Cave Spring, Rehoboth, Belleview and Vans Valley School districts and erect school to accommodate 500 pupils; cost \$35,000 to \$40,000.

Ga., Pineview—Pineview-Jamestown Consolidated School Dist. Trustees, V. C. Parker, Waycross, and others, will receive bids until Feb. 25 to erect 11-room and auditorium unit type brick building; plans and specifications from office trustees.

Ga., Rome—Floyd County School Board will rebuild Johnson School in Etowah District, noted burned.

Ky., Ashland—Board of Education, Geo. F. Parks, Secy., will erect grade school in Poland; 12 classrooms, auditorium, gymnasium, domestic science and manual training department; also building at Oakview; 16 classrooms, auditorium, gymnasium, domestic science and manual training department; both structures fireproof; composition roof; hardwood and concrete floors; steel sash and trim; metal doors; wire glass; Albert F. Klein, Archt., 20 Gaylord Bldg. (Lately noted).

Ky., Falmouth—Falmouth Graded School Dist. No. 1, Henry W. Bishop, Secy., 204 W. Fourth St., will erect school; cost \$40,000; 186x86 ft.; brick; probably Johns-Mansville roof; hardwood floors; heating plant, \$4,000; lighting, \$2,000; Jno. T. Gillig, Archt., Cynthiana; contract let Feb. 20.

Ky., Middlesboro—Board of Education, J. W. Runcie, Supt.-Secy., will erect 3 schools; \$150,000 bonds voted. (Previously noted).

Md., Baltimore—City School Board, Dr. Henry S. West, Supt., 1310 Madison Ave., will erect Hampden Woodberry school; Wm. W. Emmart, Union Trust Bldg., preparing preliminary sketches.

Md., Mount Rainier—Prince Georges County Board of Education, Nicholas Orem, Supt., Upper Marlboro, sold \$85,500 bonds for schools as follows: Mount Rainier, \$25,000; Cottage City, \$25,000; Suitland, \$15,000; Forestville, \$7,500; Ardmore, \$7,000; Lincoln, \$5,000.

Md., Owings Mills—Rosewood State Training School, Dr. Frank W. Keating, Supt., will receive bids until March 1 to erect infirmary; cost \$40,000; fireproof; stone walls; slate roof; composition floors; heat and light from central plants; drawings and specifications at office Wm. W. Emmart, Archt., Union Trust Bldg., Baltimore; drawings for mechanical equipment at office Chas. L. Reeder, Consult. Engr., 917 N. Charles St., Baltimore. (Lately noted.)

Miss., Harrison—Harrison-Jackson Consolidated School Dist. plans election on \$20,000 bonds to erect agricultural high school near Biloxi.

Miss., Jonestown—Coahoma County Board of Public Instruction, P. F. Williams, Supt., Friars Point, will erect high school and teachers' home; \$40,000 bonds sold.

Miss., Picaune—Picaune Separate School Dist. will vote on \$65,000 bonds to erect school building. Address Dist. School Trustees.

Miss., Taylor—Taylor Consolidated School Dist. No. 4 will vote March 4 on \$14,500 bonds to erect annex to high school. Address Dist. School Trustees.

Mo., Adrian—Board of Education will receive bids until March 2 to erect grade and high school; plans and specifications at office Secretary, Adrian, and office Chas. A. Smith, Archt., Finance Bldg., Kansas City.

Mo., Mansfield—School Board will rebuild high school noted burned at loss of \$20,000.

Mo., Pattonsburg—Board of Education, G. F. Beckett, Secy., will erect school; cost \$40,000; 2 stories and basement; brick; stone trim; composition roof; R. H. Sanneman, Archt., 519 Lee Bldg., Kansas City; Harvey Sutton, Pattonsburg, is lowest bidder. (Previously noted.)

Mo., St. Louis—Rubicam Business School, Grand Ave. and Arsenal St., will erect building; cost \$125,000; 3 stories; 80x115 ft.; reinforced concrete, brick and stone; terra cotta trim; floors of reinforced concrete surfaced with maple and interior walls of tile; Nolte & Nauman, Archts. (Lately noted).

Mo., Seymour—Board of Education plans to issue \$22,600 bonds to erect school.

N. C., Burnsville—Yancey Collegiate Institute, Rev. Dr. A. E. Brown, Prest., will rebuild structure noted burned at loss of \$60,000.

N. C., Greensboro—North Carolina College for Women, Dr. J. I. Foust, Prest., will receive bids until Feb. 28 to enlarge library; cost \$75,000; fireproof; slate and tin roof; wood floors; heating from central plant; Harry Barton, Archt. (Lately noted).

N. C., Pembroke—Building Committee, O. R. Sampson, Chrmn., will receive bids until March 22 to erect building for Indian Normal School of Robeson County; separate bids for general construction, heating, plumbing and water supply, sprinkler system and lighting system; cost \$50,000; U shape; 72x140 ft.; 12 classrooms and auditorium; ordinary construction; metal lath; built-up roof; wood floors; steel sash and wire glass for about 6 windows; low pressure steam heat; ventilators; plans from office J. M. Kennedy, Archt., Raleigh. (Lately noted).

N. C., Ronda—Wilkes County Board of Education, C. C. Faw, Chrmn., Wilkesboro, will erect school; cost \$40,000.

N. C., Southern Pines—Southern Pines School Dist. will vote April 11 on \$50,000 bonds. Address Dist. School Trustees. (Lately noted to vote Feb. 28.)

N. C., Stovall—School Board, Dr. W. L. Taylor, Chrmn., will erect high school; cost \$30,000; 54x110 ft.; ordinary construction; built-up roof; wood floors; low pressure steam heat; bids opened; J. M. Kennedy, Archt., Raleigh. (Lately noted).

N. C., Tarboro—Tarboro Township defeated \$150,000 school improvement bonds. (Lately noted).

N. C., Winston-Salem—City, Jas. G. Hanes, Mayor, will construct athletic field at Reynolds in connection with Richard J. Reynolds Memorial High School; Thos. W. Sears,

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Landscape Archt., 1424 Walnut St., Philadelphia, Pa.; construct cement grandstand to seat 800; contain 2 dressing rooms equipped with electric lights, shower baths, hot and cold water; Chas. Barton Keen, Archt., 1218 Chestnut St., Philadelphia.

Okl., Guthrie—City Board of Education plans to erect high school, renovate and improve ward buildings; election Feb. 21 on \$300,000 bonds.

Okl., Stillwater—City is considering election April 4 on school bonds not to exceed \$80,000. Address Board of Education.

S. C., North Charleston—North Charleston School Dist. will erect school; 10 classrooms and auditorium; cost \$50,000; bids opened Feb. 23; H. H. McCarley, Co. Supt. of Education, Charleston; David B. Hyer, Archt., Peoples Bldg., Charleston. (Lately noted).

Tenn., Blue Grass (R. D. from Concord)—County Board of Education, Knoxville, will erect high school.

Tex., Amarillo—School Board will receive bids until March 1 to erect high school lately noted; cost about \$200,000; Parker & Rittenberry, Archts., 328-29 Blackburn Bldg. (See Machinery Wanted—Building Material; Brick; Tile; Marble; Blackboards; Vacuum Cleaning System; Signal and Clock Systems).

Tex., Austin—Southern Methodist Churches plan to erect \$100,000 dormitory at University of Texas; Bishop Jno. M. Moore, Nashville, Tenn., is interested.

Tex., Breckenridge—School Board will receive bids until Feb. 27 to erect 3-story high school and 2-story grade school; brick; fireproof corridors and stairs and wood joist floor construction; separate bids for heating, plumbing and electrical work; plans and specifications at office Clarkson & Gaines, Archts., 606-07 First Nat'l. Bank Bldg., Fort Worth. (Previously noted.)

Tex., Canadian—Canadian Independent School Dist. Trustees will erect school; cost \$40,000; J. C. Berry, Archt., Amarillo.

Tex., Canutillo—Canutillo School Dist. Trustees will erect 4-room addition to building; \$15,000 bonds voted; Myra Winkler, El Paso County School Supt., El Paso.

Tex., El Paso—School Board, Chas. S. Ward, Prest., will erect school at Cotton Ave. and 7th St.; cost \$175,000; 2 stories; 22 rooms and auditorium; reinforced concrete; composition roof; hardwood floors; vacuum steam heat; bids opened March 1. Address Trost & Trost, Archts., First Nat'l. Bank Bldg. (Lately noted.)

Tex., Dallas—Southern Methodist University, Dr. H. A. Boaz, Prest., will erect 3-story addition to Dallas Hall; cost \$125,000; auditorium to seat 5000.

Tex., El Paso—City School Board, A. H. Hughey, Supt., will erect 8-room addition to Grandview School; cost \$50,000.

Tex., Kerrville—Kerrville Independent School Dist. Trustees will erect building; cost \$200,000; brick, concrete and hollow tile; stone trim.

Tex., Palestine—Palestine School Dist. will erect negro high school and repair other structures; \$43,000 bonds available. (Previously noted.)

Tex., Saratoga—Saratoga Independent School Dist. Trustees, S. W. Foster, Secy., will erect high school; 18 class rooms, laboratory, library, and auditorium to seat 850 pupils; brick; steam heat; electric lights; cost \$75,000; Steinmann & Son, Archts.,

Tex., Schulenburg—Board of Education will erect high school; cost \$50,000; 2 stories and basement; hollow fireproof tile; tar and

gravel roof; interior tile; rolling partitions; concrete and wood floors; stoves; M. L. Waller & Co., Archts., 511 Brady Bldg., San Antonio. (Lately noted).

Tex., Waco—Baylor University, Dr. S. P. Brooks, Prest., will rebuild Carroll Chapel and Library noted burned at loss of \$100,000.

Tex., Waco—Board of Education, B. B. Cobb, Supt., will erect schools and additions to present structures; brick; composition roof; wood and concrete floors. (Lately noted to expend about \$400,000.)

Tex., Willis—School Board will erect 2-story brick school; bids opened Feb. 21; plans at office C. H. Leinbach, Dallas and M. J. Graybill, Willis.

Va., Amherst—Amherst County Board of Education will erect high school in Elon Dist.; cost \$15,000 to \$20,000.

W. Va., Statesbury—Slab Fork Dist. Board of Education, H. H. Lilly, Secy., Odd, W. Va., will receive bids until Feb. 25 to erect high school; 42x82 ft.; 2 stories; stone and brick; asbestos shingle roof; hardwood floors; steam heat; plans and specifications from C. R. Stahl, Statesbury. (Lately noted).

Stores.

Ala., Gadsden—W. H. Howard Co. will rebuild burned structure.

Fla., Pensacola—Levy Bros. will erect 5 store buildings at Palafox and Wright Sts.

Fla., Pensacola—W. R. Taylor & Co. will erect building on E. Garden St.; 60x100 ft.; concrete and brick.

Miss., Crystal Springs—F. C. Coker will erect 2 store buildings on Marion Ave.

Mo., Kansas City—C. L. Carlston will expend \$15,000 to remodel building at 115 Grand Ave.

Mo., Kansas City—Geo. A. Metcalf, 2325 W. 47th St., will erect building at 13th and McGee Sts.; 2 stories and basement; 50x115 ft.; brick; stone trim; J. C. Sunderland and Walter A. Besecke, Archts., 406 Interstate Bldg.

Mo., Kansas City—H. A. Moore will erect store and office building at 39th and Summit Sts.; 2 stories and basement; 77x60 ft.; brick and frame; Tarbet & Gornall, Archts., 507 Republic Bldg.

Mo., Kansas City—J. A. Kellam, 607 Sharp Bldg., will erect store building at 1023 Broadway Ave.; 2 stories and basement; 100x142 ft.; brick; stone trim; plans and construction by owner.

Mo., Kansas City—Otto Wittmann will erect building at 1820-22 McGee St.; 1 story; brick; cost \$10,000.

N. C., Burlington—Champion Grocery Co. will erect building on N. Main St.; 2 stories; brick.

N. C., Burlington—Walter Bell will erect business building on E. Davis St.

N. C., Burlington—Smith & Qualls will erect business building on N. Main St.

N. C., Charlotte—Geo. Wilson, Commercial Bank Bldg., will erect store building; cost \$25,000; 2 stories and basement; 20x125 ft.; brick; L. L. Hunter, Archt., Kinney Bldg.

N. C., Charlotte—Pound & Moore, 205-07 S. Tryon St., will remodel building at 219 S. Tryon St.; 3 stories and basement; W. H. Peeps, Archt.

N. C., Elkin—Graham-Gwyn Co. is reported to erect department store.

Tenn., Knoxville—Alvin Weber will erect 2-story brick store at 1217 Asylum Ave.; 75x50 ft.; cost \$20,000.

Tenn., Memphis—G. A. Donelson will erect 1-story brick store at 634 Bellevue Ave.; cost \$10,000.

Tenn., Memphis—Jos. Hanover will erect

1-story brick store at Hollywood; cost \$12,000; 76x80 ft.; Sleg & McDaniel, Archts.

Tenn., Nashville—Piggley Wiggley Corp., will remodel and alter building on 5th Ave.; Marr & Holman, Archts., Stahlman Bldg.

Tex., Brownsville—Mrs. Gade will erect store and office building; 75x125 ft.; concrete and brick; M. L. Waller, Archt., Brady Bldg., San Antonio.

Tex., Dallas—Schulte Cigar Co. will expend \$10,000 to remodel brick store, 1412-14 Elva St.

Tex., Galveston—Foley Bros. will expend \$25,000 to remodel buildings at Main and Preston Sts. for extension to department store.

Tex., Orange—W. E. McCorquodale will erect several buildings; hollow tile and concrete.

Tex., San Antonio—Richey & Casey, 505 Navarro St., desire bids for erection of 2-story reinforced concrete and brick building on Laurel Heights; separate bids for foundation.

Tex., San Antonio—Standard Sanitary Mfg. Co. plans to erect store on Grand Ave.; 1 story; brick and concrete; provision for display rooms and storage space.

Tex., Waco—F. Adelman will expend \$15,000 to remodel old Majestic Theater building on N. 4th St. for stores and offices; 2 stories; E. McIver Ross & Co., Archts.

Va., Amherst—J. R. Goodwin will erect store; cost \$10,280; 2 stories; 58x90 ft.; mill and semi-fireproof construction; brick walls; tin roof; concrete and wood floors; metal ceilings; steel sash and trim; electric lights; Stanhope S. Johnson, Archt., Peoples Bank Bldg., Lynchburg; construction by owner. (Lately noted.)

Va., Norfolk—Wm. Newton Diehl, Monroe Bldg., prepared plans for store building at Market St. and Monticello Ave.; cost \$50,000; 5 stories; 35x100 ft.; brick and reinforced concrete.

Va., Norfolk—Selden Estate will erect building at Bank and Hill Sts.; cost \$30,000; 2 stories; 100x45 ft.; reinforced concrete and brick; B. F. Mitchell, Archt., Seaboard Bank Bldg.

W. Va., Princeton—American Mercantile Co., Roanoke, Va., will erect building for store and railway restaurant; cost \$25,000; 52½x105 ft.; brick; rift pine and concrete floors; metal ceilings; built up 5-ply roof; wire glass; steel sash and trim; steam heat, \$3500 to \$4000; electric lights; H. M. Miller, Archt., Roanoke; construction under supervision of foreman. Address M. L. Parker, P. O. Box 605, Roanoke, Va. (See Machinery Wanted—Metal Ceiling; Wire Glass; Cement; Steel Sash and Trim.)

Warehouses.

N. C., Albemarle—Wiscasset Mills Co. is reported to erect 5-story cotton warehouse; 70x168 ft.; brick and frame; J. E. Sirrine & Co., Archts., Greenville, S. C., and Dallas, Tex.

Tenn., Memphis—Pidgeon-Thomas Iron Co. will erect warehouse addition on Main St.; cost \$150,000; 350x200 ft.; steel, concrete and brick; steel trusses; fireproof roof; steel sash windows; install mechanical equipment to handle structural steel pieces, plate girders, steel trusses; two 10-ton cranes, circular saw running in water to cool carborundum teeth; E. L. Harrison, Archt.-Engr.

Tex., Dallas—W. A. Browning will erect warehouse; brick.

Tex., Georgetown—Young Men's Business League is interested in establishment of bonded warehouse for cotton.

BUILDING CONTRACTS AWARDED

Apartment Houses.

D. C., Washington—John M. Abbott will erect \$25,000 apartment house at Randolph and 8th Sts., N.W.; 2 stories and basement; brick and frame; 4 suites; Moore & Blakeslee, Archts., Colorado Bldg.; Paul H. Sears, Contr., Builder's Exchange, Bond Bldg.

Md., Baltimore—Geo. R. Debnam, Union Trust Bldg., will erect Geneva Apartments at Greenway and St. Paul St.; cost \$145,000; 115.5x100 ft.; 2 units; one, 4 and other, 5 stories; 32 apartments; fireproof; brick and stucco walls; gypsum block partitions; tile and slag roof; vapor heat; Parker, Thomas & Rice, Archts., Union Trust Bldg.; Hicks, Tase & Norris, Inc., Contrs., 106 W. Madison St. (Lately noted.)

Tenn., Memphis—Blair Const. Co. has contract to erect 2 apartment houses at 354-56 N. McLean Blvd.; cost \$28,000 each; brick; tile roof; 4 suites; steam heat; Sieg & McDaniel, Archts.

Tenn., Memphis—G. M. Samuels will erect \$10,000 duplex apartment house at Monroe Ave. and Cox St.; brick; Ben E. Berry, Contr.

Tex., Houston—G. T. Heinrichs will erect \$50,000 apartment house at McGowan Ave. and Milam St.; hollow tile; 3 stories; 15 apartments; Finger & Cato, Archts.; C. F. Wertz, Contr.

Tex., Houston—John N. Crooker will erect \$35,000 apartment house lately noted; 35x70 ft.; hollow tile and stucco; Geo. D. Cook, Contr., Stewart Bldg. (See Machinery Wanted—Folding Beds.)

Va., Norfolk—C. M. Taylor will erect \$94,783 apartment house at Colley Ave. and Armistead Bridge Rd.; 20 suites; R. R. Richardson, Contr.

Va., Norfolk—Frank Jacobs will erect 4-story building; cost \$49,449; stores on first floor; apartments above; 44x100 ft.; brick; concrete foundation; steel frame; wood joists; 5-ply gravel roof; hardwood and concrete floors; over-head system steam heat; hollow fireproof tile; metal ceilings; ornamental terra cotta; interior tile; metal doors; wire glass; ventilators; steel sash and trim; Sylvester Gerloff, Archt., Monroe Bldg.; Nugent Price Const. Co., Contr. (Lately noted.)

Association and Fraternal.

Ky., Hazard—Louisville & Nashville R. R., W. H. Courtenay, Chf. Engr., Louisville, will erect Y. M. C. A. building; contract let.

Bank and Office.

Mo., Marston—J. W. Taylor, Kennett, has contract to erect bank building; 1 story; 25x60 ft.; brick and hollow tile; Johns-Mansville roof; concrete foundation; wood floors; metal ceilings; plastered walls.

Va., Portsmouth—Chas. R. Welton will erect 3-story brick store and office building; cost \$24,638; Meredith Const. Co., Contr., Norfolk.

Churches.

Ala., Birmingham—Independent Presbyterian Church will erect \$104,000 building; semi-fireproof; slate roof; cement, hardwood and tile floors; steam heat; electric lights; Warren, Knight & Davis and Miller & Martin, Asso. Archts.; Smallman-Brice Const. Co., Inc., Contr. (Lately noted.)

Miss., Leland—Baptist Church, B. O. McGee, Chrmn. Bldg. Comm., will erect \$50,000 building; 3 stories; pressed brick; stone trim; composition and slate roof; steam

heat; electric lights; Raymond B. Spencer, Archt., Goodwyn Institute Bldg.; D. B. Thomas & Sons, Contrs., both Memphis, Tenn. (Lately noted.)

Tex., Houston—First Baptist Church, Rev. Dr. J. B. Leavell, Pastor, will erect \$650,000 building on Lamar Ave. from Fannin to Main Sts.; 4 stories; will probably erect 6 additional stories later; auditorium to seat 4000; C. D. Hill & Co., Archts.; Tom Tellepsen, Contr. (Previously noted.)

Tex., Orange—First Methodist Church will erect building; Mr. Hupp, Contr. Address The Pastor.

City and County.

La., Homer—Jail—Calborne Parish will erect \$34,500 jail; 2 stories and basement; reinforced concrete and brick; Southern Steel Co., Archt.-Contr., San Antonio, Tex.

Courthouses.

Ark., Mount Ida—Montgomery County will erect \$40,000 courthouse; brick; Clyde Ferrell, Archt.; Burkett Const. Co., Contr., both Little Rock. (Previously noted.)

Dwellings.

Fla., Bradentown—F. A. Harrison will erect residence in Palma Sola Bay section; contracts let.

Fla., Ocala—Walter Ray will erect residence; Ray & Thompson, Contrs.

La., New Orleans—Eureka Homestead Society will erect \$6450 residence and \$9700 residence; Geo. J. Miller & Bros., Contrs. for former; B. S. Nelson & Co., Contrs. for latter.

La., New Orleans—Homeseekers Bldg. & Loan Assn. will erect \$7400 dwelling and \$7740 dwelling; 2 stories; Aug. Frank, Contr. for former; Peter Rausch, Contr. for latter.

La., New Orleans—Chas. Tolmas will erect 3 frame duplex residences at Apricot, Pritchard, Lowerline Sts. and Broadway; cost \$18,400; Sidney H. Cates, Contr.

N. C., Charlotte—Mrs. McNelly will erect residence on Morehead St.; Louis H. Asbury, Archt.; J. B. Foard, Contr.

Tenn., Memphis—South Memphis Land Co., B. Lee Mallory, Pres., will erect 15 dwellings in New South Memphis; cost \$7000 to \$7500 each; tile baths; hardwood floors; hot water heat; H. Dlugach, Contr.

Tenn., Memphis—W. W. Rideout will erect residence and catering establishment at Central Ave. and E. Parkway; 40x60 ft.; Bouldin & Bouldin, Contrs.

Tenn., Nashville—Dr. A. G. Nichol will erect \$15,000 residence; 7 rooms; hollow tile and stucco; hand split redwood shingle roof; hardwood, concrete and rezolite floors; low pressure steam heat; electric lights; hollow fireproof tile; ornamental terra cotta; Asmus & Clark, Archts.; G. B. Howard Const. Co., Contr.; all materials purchased and contracts let. (Lately noted.)

Va., Norfolk—Herman Aspegren will erect residence in Algonquin Park; W. T. Gregory, Contr.

Government and State.

Tenn., Nashville—Asylum—State Board of Administration, Lewis S. Pope, Mgr., will erect 7 buildings for Institution for Feeble Minded; cost \$219,000; dormitories, schools, shops, administration building, superintendent's residence, laundry and boiler room; Marr & Holman, Archts., Stahlman Bldg.; B.

Loring Haywood, Landscape, Archt., Taunton, Mass.; Dr. Geo. L. Wallace, consulting specialist, Wrentham, Mass.; G. B. Howard & Co., Contrs., Nashville. (Lately noted.)

Hospitals, Sanitariums, Etc.

Ark., Ozark—Dr. W. H. Bollinger will erect hospital; 32x64 ft.; contract let.

Okla., Cushing—City Comn. will erect hospital; cost \$50,000; 3 stories; 106x36 ft.; fireproof; brick; tile roof; composition and concrete floors; steam heat; hollow fireproof tile; ornamental terra cotta; wire glass; ventilators; elevators; movable fixtures, \$6800; improvements, \$4000; Redlich & Patterson, Archts., Stillwater; Gray Bros., Contrs. (Lately noted.)

Hotels.

Fla., Orlando—Beeman Investment Co., Inc., will erect addition to San Juan Hotel, first of three units; cost \$360,000; ground floor, 92x168 ft.; 6 bed room floors, 52x135 ft.; reinforced concrete and hollow fireproof tile; Barrett 5-ply roof; hardwood and concrete floors; metal ceilings; metal doors and ceilings; interior tile; steel sash and trim; ventilators; mail chutes; W. L. Stoddart, Archt., 9 E. 40th St., New York. (Address Turner Construction Co., Contr., 140 Peachtree St., Atlanta, Ga. (Lately noted.)

Mo., Hayti—Mrs. Mitchell will erect hotel; cost \$20,000; 50x80 ft.; 2 stories; brick and hollow tile; metal ceilings; concrete, tile and yellow pine floors; steam heat, \$2700; electric lights; J. W. Taylor, Contr., Kennett, Mo. (Lately noted.)

W. Va., Wheeling—McLure Hotel will erect addition to building; 8 stories; 90 rooms with bath or shower; marble entrance; cost about \$250,000; R. R. Kitchen Co., Contr.

Miscellaneous.

Va., Petersburg—Clubhouse—Petersburg Country Club, Wm. L. Zimmer, Jr., Pres., will erect clubhouse; 1 story; 70 ft. frontage, not including porches on 3 sides; assembly room, 70x40 ft.; 4 tennis courts; cost \$29,000. Fred A. Bishop, Archt.; Richard S. Rice, Contr. (Lately noted.)

Railway Stations, Sheds, Etc.

Ark., Earl—Missouri Pacific R. R., E. A. Hadley, Ch. Engr., St. Louis, will erect passenger station; cost \$20,000; 24x115 ft.; hollow fireproof tile, reinforced concrete and stucco; concrete foundation; slate roof; reinforced concrete and hardwood floors; electric lights; hot air heat; H. O. Hirsch & Co., Contrs., St. Louis. (Lately noted.)

S. C., North Charleston—North Charleston Development Co. will erect building for terminal station; cost \$12,000; 2 stories; 25x76 ft.; waiting room and restaurant on first floor; hotel rooms above; brick veneer; Barrett specification roof; wood and cement floors; metal ceilings and doors; wire glass; steel sash and trim; ventilators; electric lights; Dixie House Co., Archt.-Contr. (Lately noted.)

Tex., Dallas—Missouri, Kansas and Texas R. R., Frank Ringer, Ch. Engr., St. Louis, will erect passenger station in Highland Park; brick and stucco; Spanish tile roof; 500-ft. platform; Hickey & Montgomery, Contrs., Dallas. (Lately noted.)

Schools.

Ala., Birmingham—Jefferson County Board of Education will erect school at Bessie; cost \$13,577; 6 rooms and library; frame; D. O. Whilldin, Archt., Title Guarantee Bldg.;

Hetrick Engineering Co., Contr. (Lately noted.)

Ala., Grady—Montgomery County Board of Revenue, D. C. Allen, Prest., Montgomery, will erect school; cost \$15,000; 3 classrooms, auditorium, office and library; brick, stucco and hollow tile; composition shingle roof; rift pine floors; interior tile; jacketed stoves; J. P. Roberts, State School Archt.; H. F. Horn & Sons, Contrs., both Montgomery. (Lately noted.)

Ala., Lapine—Montgomery County Board of Revenue, D. C. Allen, Prest., Montgomery, will erect school; cost \$15,000; 3 classrooms, auditorium, office and library; brick and stucco; composition shingle roof; rift pine floors; interior tile; jacketed stoves; J. P. Roberts, State School Archt.; H. F. Horn & Sons, Contrs., both Montgomery. (Lately noted.)

Ala., Montevallo—Alabama Technical Institute and College for Women, Dr. T. W. Palmer, Prest., will erect library building; cost \$65,000; fireproof; brick; slate roof on steel trusses; concrete slab, marbleoid and hardwood floors; hollow fireproof tile; metal ceilings; metal doors; ventilators; steel sash and trim; steam heat and lighting from central plant; Warren, Knight & Davis, Archts., 1607 Empire Bldg., Smallman-Price Construction Co., Contr., both Birmingham; Michael Supply Co., Talladega, plumbing and heating; O. M. Floyd Electric Wiring Co., Birmingham, wiring. (Lately noted.)

Ala., Montgomery—State Board of Education, Jno. W. Abercrombie, Executive Officer, will erect dormitory and dining room at State Normal School for Negroes; cost \$50,000; former, 42x148 ft.; latter, 60x100 ft.; kitchen, 25x72 ft.; hollow tile walls faced with brick; composition shingle roofs and tin decks; yellow pine floors; electric lights; J. Platt Roberts, State Archt.; Foshee Lumber Co., Contr. (Lately noted.)

La., New Orleans—Orleans Parish School Board, Nicholas Baer, Secy., City Hall Annex, will erect 2 elementary schools, Orleans and Hennessey Sts. and General Pershing and Miro Sts.; 2 stories and basement; brick; cost \$213,500; E. A. Christy, City Archt., Room 25, City Hall Bldg.; O. M. Gwin Construction Co., Contr. (Lately noted.)

Mo., Kansas City—Board of Education, J. B. Jackson, Secy., Library Bldg., will erect addition to manual training high school, 15th and Forest Aves.; 4 stories and basement; 111x117 ft.; brick and concrete; stone trim; C. A. Smith, Archt., 602 Finance Bldg.; John Gosling, 225 Railway Exchange Bldg., contr. at \$157,185. (Lately noted.)

Mo., Kansas City—School Board will erect Troost School on 60th St. nr. Forest Ave.; cost \$225,000; 1 story; 240x220 ft.; reinforced concrete, stone and brick; slate roof; skylight lighting system; 2 gymnasiums; auditorium, luncheon room, domestic science department and classrooms to accommodate 500 pupils; Crosby-Elmer Construction Co., Contr.

N. C., Davidson—Davidson College, Wm. J. Martin, Prest., will erect dormitory to accommodate 115 students; cost about \$65,000; 42x110 ft.; 5 stories; fireproof; reinforced concrete, tin roof; pine floors in rooms, composition in halls; steam heat from central plant; electric lights; Robt. F. Smallwood, Archt., 70 Morningside Dr., New York;

Blythe & Isenhour, Contrs., Charlotte; also plans to rebuild Chambers Hall damaged by fire. (Lately noted.)

Okla., Arcadia—Oklahoma County, Tom Bodine, Clk., will erect colored school; cost \$20,000; 2 stories and basement; Dave Wilderson, Archt., 1024 E. 8th St.; Campbell Price, Contr., Oklahoma City. (Lately noted.)

Okla., El Reno—Board of Education, C. E. Grady Supt. will erect addition to junior high school; 3 stories and basement; 110x124 ft.; Layton, Smith & Forsythe, Archts., Southwest Natl. Bank Bldg.; Kreipke-Schafer Constr. Co., Contr., both Oklahoma City. (Previously noted.)

Okla., Luther—Oklahoma County, Tom Bodine, Clk., will erect addition to school near Luther; cost \$30,000; 2 stories and basement; Dave Wilderson, Archt., 1024 E. 8th St.; Campbell & Price, Contr., both Oklahoma City. (Lately noted.)

Okla., Muskogee—School Board, R. J. Tighe, Supt., will erect additions to 6 schools and repair Washington School damaged by fire; brick and frame; Manhattan Construction Co., contr. at \$136,700; H. O. Valeur & Co., Archts. (Lately noted.)

S. C., Due West—Woman's College, Dr. R. H. Robinson, Prest., will erect \$75,000 dormitory; 3 stories and basement; 49x147 ft.; brick and limestone; 50 rooms; Jas. A. Salter, Archt., Raleigh, N. C.; J. A. Jones Construction Co., Contr., Charlotte. (Lately noted.)

Tex., Arlington—School Board will erect high school; 3 stories; brick; fireproof corridor floors, walls and stairs; other floors, wood; electric lights; cost \$59,000; Clarkson & Gaines, Archts., National Bank Bldg., Fort Worth; Henger & Chambers, Contrs., Dallas. (Lately noted.)

Tex., El Paso—El Paso County Board of Education, Myra Winkler, Supt., will erect 8-room additions to Alameda and Morning-side Heights schools; cost \$53,000; fireproof; Percy McGhee, Jr., Archt.; Frank O'Brien, Contr.

Tex., Leakey—Leakey Independent School Dist. Trustees will erect 2 schools; cost \$23,000; 53x60 ft. and 27x60 ft.; stone walls; tin roof; wood and concrete floors; metal ceilings; rolling partitions; blackboards; jacketed stoves; Will N. Noonan, Archt.; De Puy & Ranney, Contrs., both San Antonio. (Lately noted.)

Tex., Lorenzo—School Board will erect high school; cost \$50,000; Fred Bone, Contr., Amarillo.

Tex., Los Indios—School Board will erect brick building; cost \$15,000; R. E. Ewing, Contr., Harlingen.

Tex., Wilson—School Board will erect building; cost \$31,000; B. Moore, Contr., Brownwood.

Va., Disputanta—Templeton and Blackwater Dist. School Board will erect grade school; cost \$27,000; 2 stories and basement; 40x50 ft.; F. A. Bishop, Archt., Terminal Bldg., Petersburg; Fred W. Horton, Contr., Hopewell.

Stores.

Ark., Little Rock—H. D. Riff, Prop., New York Store, will erect \$20,000 department store and \$15,000 theater on E. Washington Ave.; W. H. Lamberson, Contr.

La., Monroe—Emanuel G. and Leon G. Sugar and Mrs. Esther Sugar Rosenheim

will erect 3 stores and remodel Yuen Lee Restaurant on DeSiard St. nr. 6th St., Five Points; William Drago and L. Milton King, Asso. Archts., will supervise construction; Richard Cassidy, Contr.

La., New Orleans—Gulf Glass & Paint Co. will erect 3-story building at Girod and Carondelet Sts.; cost \$33,911; R. P. Farnsworth & Co., Contrs.

Md., Baltimore—Gilpin-Longdon & Co., Inc., 300 W. Lombard St., will erect 1-story fireproof building at Eagle and Smallwood Sts.; cost \$37,000; 65x211 ft.; slag roof; E. H. Glidden, Archt., American Bldg.; Fraine Bros. & Haigley, Contrs., 18 Clay St. Miss., Picayune—Merchants' Grocery Co. will erect building; A. W. Smith, Contr.

Mo., Kansas City—Plains Realty Co. will erect store building at 926 Wyandotte St.; cost \$50,000; 2 stories and basement; 50x165 ft.; Victor De Foe, Archt., 1125 Scarritt Bldg.; Wm. R. Jewell, Contr., 227 Rialto Bldg.

Mo., St. Louis—Jno. D. Tobin Real Estate & Investment Co., Jno. E. Tobin, Prest., will erect double 2-story building at 1407-09 Pine St.; cost \$25,000; contract let.

S. C., Greenville—Jones McCrory will erect 1-story brick building at Townes and College Sts.; cost \$35,000; Beacham & LeGrand, Archts.; W. P. Ortale Co., Contr.

Tenn., Memphis—C. F. Farnsworth will expend \$10,000 to remodel building, Main St. and Union Ave.; 3 stories; store on ground floor; offices above; E. L. Harrison, Archt.; Sam Malkin, Contr.

Tex., Dallas—I. Goldsmith will erect 2-story building for 5 stores on first floor; 6 apartments above; cost \$45,000; 105x85 ft.; brick and joist construction; tar and gravel roof; hollow fireproof tile; cement, tile and hardwood floors; metal ceilings; interior tile; plaster board; rolling partitions; steel sash and trim; mail chutes; ventilators; gas heat; Jas. C. Teague, Archt. Address Rupert O. Slaughter, Contr. (Lately noted.)

Tex., Galveston—Robt. I. Cohen will erect third-story addition to portion of building on Market St.; 4800 ft. floor space; provide mezzanine floor; install freight and passenger elevator, also heating plant; W. H. Janssen, Contr.

Tex., Orange—W. L. Shepherd will erect building at Division and Short Sts.; 65x90 ft.; 2 stories; hollow tile; accommodate 6 stores on first floor; Mr. Hupp, Contr.

Tex., San Antonio—Specia Plumbing Co. will erect store at 509 W. Houston St.; brick; J. M. Oussett, Contr.

Va., Norfolk—Tabb Estate, Hampton, (Baldwin Bros., 116 Brooke Ave., Norfolk, representatives) will expend \$40,000 to rebuild Tabb Building on Main St., damaged by fire; brick and frame; gravel roof; wood floors; steam heat; W. T. Gregory, Contr., Law Bldg., Norfolk.

Theaters.

Md., Baltimore—Metropolitan Theater Co., J. Alan Fledderman, 1700 Madison Ave., and others, will erect theater and store building at 2501 Pennsylvania Ave. and 1524-30 W. North Ave.; 125x31x84x85x89x110 ft.; fireproof; brick, steel and concrete; slag roof; cost \$125,000; Otto G. Simonson, Archt., Maryland Casualty Tower Bldg.; Consolidated Engineering Co., Contr., Calvert Bldg. (Lately noted.)

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Agitator.—Lion Oil & Refining Co., Victor H. Smith, Gen. Mgr., Kansas City, Mo.—1200-bbl. agitator. (See Construction News—Gas and Oil Enterprises.)

Asphalt.—A. M. Fittro, Sect., Julian Con-

struction Co., Glen Jean, W. Va.—Prices on asphalt.

Automobile Supplies, etc.—McDonald Auto Supply Co., 717 Park St., Amarillo, Tex.—Jobbers prices on auto supplies and equip-

ment. (See Construction News—Motor Cars, Garages, Tires, etc.)

Bending Outfit (Wood).—Thornhill Wagon Co., Lynchburg, Va.—Second-hand vehicle wood rim bending outfit; state price.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Blackboards.—Parker & Rittenberry, 328-29 Blackburn Bldg., Amarillo, Tex.—State blackboards. (See Buildings Proposed—Schools.)

Boiler.—Carolina Handle Co., Four Oaks, N. C.—150 H. P. return tubular boiler.

Boiler.—C. E. Hines, Buckhannon, W. Va.—Prices on boiler for planing mill. (See Construction News—Woodworking Plants.)

Boiler.—D. C. Elphinstone, 408 Continental Bldg., Baltimore, Md.—100 H. P. locomotive type boiler.

Boilers, Etc.—Treasury Dept., Supv. Archt.'s Office, Washington, D. C.—Bids until March 23 to install complete 2 boilers and mechanical changes in cold storage and ice plant buildings at U. S. Veterans Hospital No. 50 at Whipple Barracks, Prescott, Ariz.; plans on file with Supt. of Construction at Whipple Barracks.

Boilers.—Geo. B. Todd, 415 Union St., Norfolk, Va.—Names and addresses mfrs. of boilers suitable for use in small dairy, working pressure 30 or 40 lbs.

Brick.—Parker & Rittenberry, 328-29 Blackburn Bldg., Amarillo, Tex. See Building Material.

Brick (Sand Lime).—Cibola Gravel Co., San Antonio, Tex.—Data and prices of mfrs. of sand lime brick; also marketing and consumption of same.

Bridge Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Mar. 3 to build bridges on State road from Glover to Sabula; 100-ft. steel truss span; 40-ft. I-beam span, etc.; cost \$37,594.20; bridges on State road from Ironton to Glover; 60-ft., 24-ft. reinforced concrete slab spans, etc.; cost \$9,651.10; Federal Aid Projects, Sections B and A; M. S. Murray, Div. Engr., Sikeston, Mo. (See Construction News—Bridges, Culverts, Viaducts, Etc.)

Bridge Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Mar. 6 to build bridges on State road from Harrisonville to Archie; five 20-ft. I-beam spans; Cass County, State Aid Project 20.62 A; S. M. Rudder, Div. Engr., Sedalia, Mo. (See Construction News—Bridges, Culverts, Viaducts, Etc.)

Building Material.—Parker & Rittenberry, 328-29 Blackburn Bldg., Amarillo, Tex.—Cut stone, face brick, enameled brick, floor tile, marble, structural slate. (See Buildings Proposed—Schools.)

Bridge Construction.—Hudspeth County Commrs., Sierra Blanca, Tex.—Bids until Feb. 28 to build 146-ft. reinforced concrete trestle bridge; Herbert Schroeter, County Engr. (See Construction News—Bridges, Culverts, Viaducts, Etc.)

Bridge Construction.—Polk County, E. T. Murphy, County Judge, Livingston, Tex.—Bids until Feb. 24 to build bridge over Trinity river; three 150-ft. spans, etc.; W. C. Youngs, County Engr. (See Construction News—Bridges, Culverts, Viaducts, Etc.)

Building Materials.—Scott Lumber Co., Ensley, Ala.—Quotations on all kinds of lumber and building materials.

Cableway.—Lewter F. Hobbs, Norfolk, Va.—250 ft. span cableway to handle 1 yd. clam shell bucket.

Cannery Equipment.—J. E. Thackson, Route No. 3, Greenville, S. C.—Data and prices on cannery equipment for plant with daily capacity of from 1000 to 3500 cans. (See Construction News—Canning and Packing Plants.)

Cars (Dump).—Greenstone Products Co., First National Bank Bldg., Roanoke, Va.—Six second-hand 5 or 6 yd., 2 way dump

cars, 36-in. gauge; state price, location, condition, and freight rate to Deerfield, Md.

Cars (Dump).—John G. Duncan Co., Jackson and Central Sts., Knoxville, Tenn.—Ten 4-yd. 36-in. gauge western dump cars, good second-hand or used; state price and condition.

Cast Iron Pipe and Fittings.—Water Dept., Wm. F. Broening, Prest., Board of Awards, Baltimore, Md.—Bids until Mch. 1 to furnish and deliver cast iron pipe and fittings to water dept.; Richard Gwinn, Register, City Hall; Wm. A. Megraw, Water Engr.

Castings.—City of Richmond, Va., Allen J. Saville, Director of Public Works.—Bids until Feb. 21 to supply 240 manhole castings and 70 basin castings with frames and covers; delivery as ordered; information on application.

Cement.—M. L. Parker, P. O. Box 605, Roanoke, Va.—Cement. (See Buildings Proposed—Stores—W. Va., Princeton.)

Clay (Powdered Pipe).—E. K. McCoy, 408 W. 30th St., Norfolk, Va.—To purchase in quantity powdered pipe clay.

Compressor (Air).—John M. Greene, Drexel Bldg., Philadelphia, Pa.—One used compound 12x12 single cylinder angle belt driven compressor, 400 to 500 cu. ft., at 100 lbs. pressure.

Compressors, Etc.—Richard Graf, Adel Ice & Fuel Co., Adel, Ga.—Prices on 5 and 10 ton unit steam driven compressors with tank condensers; reboilers and cans; would consider 10 ton compression and 5 ton exhaust absorption machine, to be separate units; machines laid out to be operated together or in one unit; bids open. (See Construction News—Ice and Cold Storage Plants.)

Compressor (Air).—Lewter F. Hobbs, Norfolk, Va.—200 to 250 ft. capacity air compressor, portable, gasoline driven.

Concrete Block Machines.—Hudson Cement & Supply Co., 1802 Whitmore Ave., Baltimore, Md.—Names and addresses mfrs. of concrete block machines; block used for dwelling construction.

Concrete Distributing System.—D. C. Elphinstone, 408 Continental Bldg., Baltimore, Md.—80 ft. steel tower, one cu. yd. elevator bucket, tower hopper, 100 ft. chuting and 2 gates for measuring hoppers; good condition; wire location and price.

Condenser (Jet).—G. H. Cairns, City Mgr., Gainesville, Fla.—Bids until Mch. 6, low level jet condenser; Robert & Co., Consol. Engr., Red Cross Bldg., Atlanta, Ga.

Concrete Plant Equipment.—D. G. Zeigler, Columbia, S. C.—Concrete mixers; brick machines; tile and roofing tile machines; elevator equipment. (See Construction News—Concrete and Cement Plants.)

Copper.—Benoit Coal Mining Co., Birmingham, Ala.—To purchase 5000 ft. 4/0 and 8000 ft. No. 2 bare copper.

Crane.—Elliott & Sons and R. E. Boggs, Lexington, N. C.—To rent one unloading, full revolving crane, 40 ft. boom with ¾ yd. bucket for unloading sand and stone; caterpillar traction preferred; state price, location and condition.

Crusher (Lime).—Tazewell Motor Co., Tazewell, Va.—To purchase lime crusher, capacity about 15 tons per hr.; to crush lime suitable for agricultural purposes.

Crushing Outfit.—Lewter F. Hobbs, Norfolk, Va.—Second-hand crushing outfit complete with elevators and screens; prefer crusher about 11x22.

Derrick.—Lewter F. Hobbs, Norfolk, Va.—60 ft. boom travelling derrick.

Door and Sash Machine.—See Planing Mill Equipment.

Drainage.—Highland Glades Drainage Dist., C. E. Chillingworth, Secy., West Palm Beach, Fla.—Bids until Feb. 25 to construct 20 mi. canals, about 63 mi. ditches, reclaiming 19,902 acres land; C. H. Ruggles, Chief Engr., Room 15, Postoffice Bldg. (See Construction News—Drainage Systems.)

Dredging.—U. S. Engr. Office, Jacksonville, Fla.—Bids until March 14 for dredging Key West Harbor, Fla.; information on application.

Drilling and Reaming Machine.—Thornhill Wagon Co., Lynchburg, Va.—Second-hand vertical drilling and reaming machine, to bore and ream cast iron cylinders 2½-in. diam. x 8-in. long to 3½ x 11-in.

Dump Body.—National Farms Estate, Moore Haven, Fla.—Names and addresses mfrs. of a dump body to fit on Ford truck, for hauling rock.

Electric Power Equipment.—Southern Engineering Corp., Engr., Albany, Ga.—To purchase wire, line material, transformers, etc., for commercial light and power. (See Construction News—Hydro-Electric Developments.)

Electric and Transmission Supplies, Etc.—Osage Power Development Co., W. R. Banks, Mgr., Lock Box 922, Lamar, Mo.—Data and prices on electric and transmission supplies, engineers' instruments, appliances and supplies. (See Construction News—Hydro-Electric Developments.)

Elevators.—Treasury Dept., Jas. A. Wetmore, Acting Supv. Archt., Washington, D. C.—Bids until Feb. 21 for installation complete of 2 push-button control electric freight elevators in laundry and kitchen and mess hall buildings at U. S. Public Health Service Sanatorium, Dawson Springs, Ky.; copies of drawings and specifications from office of Supv. Archt.

Engine.—C. E. Hines, Buckhannon, W. Va.—Prices on engine for planing mill. (See Construction News—Woodworking Plants.)

Engine (Drum Hoisting).—D. C. Elphinstone, 408 Continental Bldg., Baltimore, Md.—3-drum hoisting engine, 50 or 60 H. P.

Engines.—Carolina Handle Co., Four Oaks, N. C.—Two 40 H. P. engines.

Engines, etc.—Sanford-Seever Orchard Co., Robertsedale, Ala.—Correspond with mfrs. of small upright high pressure steam engine and boiler, for sprayer; want 2 later for tractor use; will furnish patterns and specifications. (See Construction News—Gas & Oil Enterprises.)

Filler (Bag).—Lewter F. Hobbs, Norfolk, Va.—One bag filler.

Fire Alarm System.—City of Shreveport, La. J. C. Flanagan, Secy.-Treas.—Bids until Feb. 25 to construct fire alarm system; plans with City Engr., City Hall.

Flooring Machine.—See Planing Mill Equipment.

Flooring (Mastic).—J. L. Barr, 224 St. Paul St., Baltimore, Md.—Prices and data on composition mastic flooring for dairy plant at Baltimore.

Flooring.—Virginia Building Material Co., 527 E. Main St., Richmond, Va.—To purchase 2 cars 13/16x2½ in. B. & B. sap rift pine flooring, f. o. b. cars Richmond; also information as to shipping mixed cars of laths, flooring and sheathing.

Folding Beds.—John N. Crooker, Houston, Tex.—Prices and information on 12 Murphy disappearing beds or other similar folding beds. (See Contracts Awarded, Apartment Houses.)

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Folding (Powder Paper) Machines.—Easy Teether Medicine Co., T. P. Anderson, Treas., Westminster, S. C.—Powder paper folding machines.

Galvanizing Plants.—Brenner & Michaelson, 505 Brook Ave., Richmond, Va.—To correspond with mfrs. of galvanizing plants to galvanize pipe, also installation of same.

Generator (Turbo) Set.—G. H. Cairns, City Mgr., Gainesville, Fla.—Bids until Mch. 6, turbo generator set with direct connected exciter, capacity 625 K.V.A.; Robert & Co., Engr., Red Cross Bldg., Atlanta, Ga.

Generator (Motor) Set.—G. H. Cairns, City Mgr., Gainesville, Fla.—Bids until Mch. 6, 30 K.W. motor generator set with switchboard and all other necessary equipment; Robert & Co., Conslt. Engr., Red Cross Bldg., Atlanta, Ga.

Glass Jars.—See Water Filter Parts.

Granite (Crushed), etc.—Duval County Commrs., Frank Brown, Clk., Jacksonville, Fla.—Bids until Mch. 1 to furnish 20 cars of 2-in. crushed granite and six cars of ¾-in. granite screening; delivery f. o. b. Jacksonville.

Gravel or Stone.—G. B. Everett, Erick, Okla.—To purchase gravel or stone. (See Construction News—Road and Street Construction.)

Grinding Machinery.—Boone Fork Mfg. Co., Elizabethton, Tenn.—Names and addresses mfrs. of grinding or pulverizing mchy., that works on principal or revolving drum filled with steel balls.

Instruments (Engineer's).—See Electric and Transmission Supplies.

Insulation (Refrigeration).—J. L. Barr, 224 St. Paul St., Baltimore, Md.—Insulation for refrigerators and cold storage rooms for dairy plant in Baltimore.

Iron (Cast).—Gainesville Machine Co., 116 Main St., Gainesville, Tex.—To correspond with mfrs. of or dealers in ground or pulverized malleable cast iron.

Iron Steps for Manholes.—City of Richmond, Va., Allen J. Saville, Director of Public Works.—Bids until Feb. 21 to supply 1200 iron steps for manholes; delivered as ordered; information on application.

Knitting Machinery, etc.—Ewing Wilder, Middleboro, Ky.—Names and addresses mfrs. of spinning, weaving and knitting mchy., also data and prices.

Lace Making Machinery.—C. P. McDaniel, Secy., Chamber of Commerce, Newberry, S. C.—Names and addresses mfrs. of mchy. for mfr. of lace.

Laths.—Virginia Building Material Co., 527 E. Main St., Richmond, Va.—To purchase 3 cars 4 ft. A. D. plastering laths; f. o. b. cars Richmond.

Lighting Fixtures.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until March 6 to furnish and install lighting fixtures in U. S. Veterans' Hospital No. 55, Fort Bayard, N. Mex.; information on application.

Lighting System.—Gilbert Water & Light Co., Roy Fox, Secy., Gilbert, W. Va.—Bids until Feb. 25 to construct lighting system; plants, etc., on file, or from L. T. Nuckols, Logan, W. Va. (See Construction News—Electric Plants.)

Loader (Wagon).—John M. Greene, Drexel Bldg., Philadelphia, Pa.—One used Barber Greene wagon loader, gasoline driven; state price, condition, etc.

Locomotive.—John G. Duncan Co., Jackson and Central Sts., Knoxville, Tenn.—Dealers price on standard gauge, 18 to 25 ton locomotive; Heisl preferred.

Locomotive.—E. C. Johnson, North, S. C.

—Light locomotive capable of handling few loaded cars.

Marble.—Parker & Rittenberry, 328-29 Blackburn Bldg., Amarillo, Tex.—See Building Material.

Metal Ceiling.—M. L. Parker, P. O. Box 605, Roanoke, Va.—Metal ceiling. (See Buildings Proposed—Stores—W. Va., Princeton.)

Mill (Grind).—J. B. Logan Lime Co., Texas, Md.—To purchase 30-in. emery mill for grinding lime; Sturtevant preferred.

Millwork.—O. V. Becklenburg, 2556 St. Johns Ave., Jacksonville, Fla.—48 vertical panel doors, 2x6, 2.6x6.6 and 2.8x6.8 ft.; 5 French doors, 2.6x7 and 3x7 ft.; 32 pulley windows, 2.5x5.2 ft.; 40 casement sash, 1.6x3.6 and 2x4 ft. (See Buildings Proposed, wellings.)

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until Feb. 24 to furnish: Folding machine; spring guide; unions; batteries; trucks; washtubs; tires; tubes; brushes; packing; wax and paper. Blank forms and information (Circular 2285) on application to offices of Panama Canal; Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Miscellaneous Supplies.—Perry M. Colson, W. Union and S. 7th Sts., Gainesville, Fla.—Second-hand supplies including iron (three-quarter) bedsteads, dressers, tables, mattresses, shower baths, water closets, lavatories, screen wire, corrugated iron, doors, windows and frames.

Miscellaneous Supplies.—Treas. Dept., General Supply Committee, Washington, D. C.—Bids until Mch. 15 to furnish during fiscal year beginning July 1, 1922, ending June 30, 1923 the following: Stationary and drafting supplies; hardware; drugs; laboratory appliances; electrical and plumbing supplies; brushes; glass and painters' supplies; photographic supplies; engraving, printing and lithographic supplies; electric and gas lamps; addressing machines, typewriters, etc.; information on application; A. W. Mellon, Secy. of Treasury.

Molds.—D. G. Zeigler, Columbia, S. C.—Molds for molding concrete blocks for road building. (See Construction News—Concrete and Cement Plants.)

Motor Dredge Tender.—U. S. Engr. Office, Wilmington, N. C.—Bids until Mch. 23 to construct motor dredge tender Watcoosa; information on application.

Motors.—Benoit Coal Mining Co., Birmingham, Ala.—To purchase several A. C. motors, 220 volt, 3 phase, 60 cycle, from 5 to 15 H. P.

Motors (Spring).—Allen Morrison Sign Co., Lynchburg, Va.—Names and addresses mfrs. of spring motors.

Moving Picture Equipment.—P. J. Derieux, Tappahannock, Va.—To purchase moving picture machines and films for moving picture theater.

Oven (Portable Bake).—Marine Corp., Quartermaster's Dept., Washington, D. C.—Bids until Feb. 25 to furnish one portable bake oven for Brigade Quartermaster, 1st Brigade, U. S. Marine Corps, Port au Prince, Haiti; delivery to Naval Operating Base, Hampton Roads, Va.; Sch. 230; information on application.

Paving.—City Comsn., Frank H. Owen, Chrmn., Jacksonville, Fla.—Bids until Mch. 16 to lay 2,962 sq. yds. tile sidewalks; plans from Engineer Dept. (See Construction News—Road and Street Construction.)

Paving.—City, E. C. Nickey, Engr. Poplar Bluff, Mo.—Bids about April 1 to construct concrete street paving; cost \$100,000. (See

Construction News—Road and Street Construction.)

Paving.—City, J. W. Hedrick, Mayor, High Point, N. C.—Bids until Mar. 2 to construct 50,000 sq. yds. sheet asphalt, bitulithic, bituminous concrete or other pavements; Taplin & Perkins, Conslt. Engrs. (See Construction News—Road and Street Construction.)

Paving.—City, Ralph K. Linville, Engr., Danville, Va.—Bids until Mar. 7 to pave Stokes St., Berryman Ave. and other streets with asphaltic concrete on 4-in. concrete base; Craghead St. with durax block; Grove, Chestnut, Loyal and other streets; sheet asphalt over present paving; Lynn St., asphaltic concrete on 6-in. concrete base; cost \$185,539. (See Construction News—Road and Street Construction.)

Paving.—Comms. Paving Dist. No. 49 and Curb and Gutter Dist. No. 10, Pine Bluff, Ark.—Bids until Feb. 25 at office of Nixon, Levine and Nixon, 117½ Main St., to pave 14,372 sq. yds. gravel pavement; 9709 lin. ft. combined curb and gutter; Guest Engineering Co., Engr. (See Construction News—Road and Street Construction.)

Paving.—Logan County, T. J. Wysong, Clk., Logan, W. Va.—Bids until Mch. 10 to pave Monitor Junction to Holden Road with one course cement concrete pavement 18-ft. wide; Monitor Junction to Cora Bridge 1.5 mi.; Cora Bridge to Holden, 2.1 mi. (See Construction News—Road and Street Construction.)

Paving.—Town, C. L. Gunter, Clk., Sanford, N. C.—Bids until Mar. 7 to construct 60,000 sq. yds. asphalt or other pavement; 30,000 lin. ft. curb and gutter; 4000 sq. yds. sidewalk; storm water drains, etc.; plans, etc., on file at Sanford, and with Gilbert C. White Co., Engr., Durham, N. C. (See Construction News—Road and Street Construction.)

Paving Equipment.—Chamber of Commerce, Cement, Okla.—Prices on road oiling equipment, rollers and rock crushers.

Pipe, Etc.—Lion Oil & Refining Co., Victor H. Smith, Gen. Mgr., Kansas City, Mo.—4 mi. second-hand 4-in. pipe line; also excess couplings. (See Construction News—Gas and Oil Enterprises.)

Pipe (Vitrified), etc.—City of Richmond, Va., Allen J. Saville, Director of Public Works.—Bids until Feb. 21 to supply 77,000 lin. ft. vitrified pipe and specials; delivered as ordered.

Planing Mill Equipment.—V. E. Ballou, Mgr., Lansing Lumber Co., Lansing, N. C.—Bids until Mch. 1 on flooring machine, moulder, end matcher, tenoning machine, resaw, sander, jointer, door and sash machine. (See Construction News—Woodworking Plants.)

Plumbing.—J. L. Barr, 224 St. Paul St., Baltimore, Md. Data and prices on plumbing for dairy plant in Baltimore.

Plumbing Fixtures.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until March 1 to furnish and deliver plumbing fixtures, all carrier charges paid, at U. S. Veterans' Hospital, Rutland, Mass.; information on application.

Police Alarm System.—City of Shreveport, La., J. C. Flanagan, Secy.-Treas.—Bids until Feb. 28 to construct police alarm system; plans with City Engr., City Hall.

Portable Buildings.—R. L. Goulding, Supvg. Principal, New Smyrna Public Schools, New Smyrna, Fla.—To correspond with mfrs. of portable school buildings; prefer nearby mfrs. to cut freight costs.

Pulverizer.—Jewel Supply and Equipment Co., 34 S. Calvert St., Baltimore, Md.—To

purchase single nought, double nought and triple nought Raymond pulverizer with air separator complete.

Pulverizer.—M. B. Parker, 1912 Oak St., Chattanooga, Tenn.—Second-hand pulverizer or apparatus to crush and pulverize limestone down to 3/32-in. or about that size, for application to acid land; to be driven by Ford tractor.

Putty Powder (Oxide Tin).—E. K. McCoy, 408 W. 30th St. Norfolk, Va.—To purchase in quantity putty powder (oxide tin).

Rails, Etc.—Greenstone Products Co., First National Bank Bldg., Roanoke, Va.—12 or 15 tons second-hand 30 lb. rails with splice bars; state price, condition, location and freight rate to Deerfield, Md.

Rails, Etc.—D. G. Zeigler, Columbia, S. C.—24 lb. rails and spikes. (See Construction News—Concrete and Cement Plants.)

Rails.—John G. Duncan Co., Jackson and Central Sts., Knoxville, Tenn.—Jobbers prices on 35 to 56 lb. relay rails, sufficient for 1 3/4 mi. of track.

Rails (Steel), etc.—E. C. Johnson, North, S. C.—To purchase 17 mi., 60 lb. steel rails, bars, bolts, frogs and switches.

Railroad Equipment.—E. C. Johnson, North, S. C.—Light equipment necessary for operating short line railroad.

Refrigerating Equipment, Etc.—H. A. Underwood, Engr., Raleigh, N. C., and Wiley & Wilson, Lynchburg, Va.—Bids opened Feb. 23 to remodel and enlarge ice making and refrigerating equipment, insulating and equipping new ice storage room, etc., also to furnish and install new steam engine driven electric generating unit at the State Hospital, Raleigh.

Road Construction.—Calhoun County Commrs., W. H. Hanna, Prest., Anniston, Ala.—Bids until Mch. 16 to grade, drain and surface 4 mi. Anniston-Jacksonville Road from Camp McClellan to Jacksonville; chert, gravel, slag, shale or water bound macadam; plans, etc., from County Engr. (See Construction News—Road and Street Construction.)

Road Construction.—Colleton County Commrs., Walterboro, S. C.—Bids until Feb. 28 to construct 12.123 mi. Walterboro-Branchville road between city limits of Walterboro and Bells Cross Roads; 29,831 cu. yds. sand-clay surfacing, etc.; plans, etc., P. M. Buckner, County Supvr., Walterboro, and State Highway Engr., Columbia, S. C. (See Construction News—Road and Street Construction.)

Road Construction.—Darlington County, W. S. Lewis, Engr., Darlington, S. C.—Bids until Feb. 24 to construct 9.598 mi. Darlington-Bishopville road; 23,617 cu. yds. sand-clay surfacing; F. A. Project 143; plans, etc., from Engr., Darlington, and State Highway Engr., Columbia, S. C. (See Construction News—Road and Street Construction.)

Road Construction.—Hernando County Commrs., H. C. Mickler, Clk., Brooksville, Fla.—Bids until Mch. 6 to reshape and rebuild base and treat with bituminous material Road No. 5 from Brooksville north; 49,300 lin. ft. surface 9 to 16-ft. wide; Spring Lake road from Brooksville south toward Dade City; 54,045 lin. ft. surface 12 to 16-ft. wide; Spring Hill road No. 105 south from Brooksville toward Aripeka; 24,378 lin. ft. surface 12 to 16-ft. wide; specifications from Chrmn. Board. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids until Mch. 15 to construct 9.5 mi. soil road from Jefferson to Wilkes county line on Route No. 68; Ashe County, Project 711. (See Con-

struction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids Mch. 15 to construct 2.3 mi. hard-surface road between Craggy and branch road to Leicester on Route No. 20; Buncombe County, Project 903. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids until Mch. 15 to construct 11 mi. macadam road between Dillsboro and Swain county line on Route No. 10; Project 951; 2 mi. hard-surface road between Dillsboro and Sylva on Route No. 10; Project 954; both Jackson County. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids Mch. 15 to construct 2.5 mi. soil road from Caldwell county line toward Taylorsville on Route No. 75; Alexander County, Project 901. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids Mch. 15 to construct 14 mi. soil road from Franklin to Georgia State line on Route No. 286; Macon county, Project 962. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids Mch. 15 to construct 6 mi. hard-surface road from Columbus to South Carolina line on Route No. 19; Polk County, Project 866. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids until Mch. 15 to construct 6 mi. soil road from Moore county line to Carthage—Sanford road; Lee County, Project No. 445. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids Mch. 15 to construct 4.6 mi. soil road from Alexander county line toward Lenoir on Route No. 75; Caldwell County, Project 724. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids Mch. 15 to construct 6.7 mi. hard-surface road between Lincolnton and Catawba county line on Route No. 16; Lincoln County Project 647. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids until Mar. 15 to construct 7 mi. hard-surface road from Wentworth to Reidsville on Route No. 65; Rockingham County, Project 588. (See Construction News—Road and Street Construction.)

Road Construction.—N. Carolina State Highway Comsn., Raleigh, N. C.—Bids until Mar. 15 to construct 5 mi. oil road from Warrenton to Liberia on Route No. 58; Warren County, Project 492. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Mar. 9 to construct 3.872 mi. State road from Maryville south and west; cost \$32,531.43; Nodaway County, State Aid Project 20.120; A. C. Lingley, Div. Engr., St. Joseph, Mo. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Mar. 3 to construct 9.619 mi. State road from Ironton

to Glover; cost \$81,564.31; 7.075 mi. State road from Glover to Sabula; cost \$81,724.25; 3.387 mi. State road from Ironton to Piedmont; cost \$34,777.51; all Federal Aid Projects 105; Sections A, B and C; M. S. Murray, Div. Engr., Sikeston, Mo. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Feb. 28 to construct 3.494 mi. State road from Dixon southward; cost \$12,607.72; State Aid Project 20.138; 4.448 mi. State highway from Waynesville southwestward; cost \$12,617.70; State Aid Project 20.137; both Pulaski County; H. D. Griffith, Div. Engr., DeSoto, Mo. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Comsn., Montgomery, Ala.—Bids until Mch. 22 to construct road from Morgan County line and extending 8.02 mi. towards Cullman; 21,014 cu. yds. crushed stone; 84,692 sq. yds. bituminous surfacing; Cullman County; plans, etc., on file, and with Div. Engr., Decatur, Ala. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Comsn., Montgomery, Ala.—Bids until Mch. 21 to construct 18.16 mi. road between Guntersville and Boaz; State Trunk Route H; 191,758 sq. yds. surfacing asphalt macadam, bitulithic, penetration macadam on crushed stone base, etc.; Marshall County; plans, etc., on file, and with Div. Engr., Decatur, Ala. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Comsn., Montgomery, Ala.—Bids until Mch. 22 to construct 7.256 mi. road from Judkins Ferry to Wetumpka; Elmore County; plans, etc., on file, and with Div. Engr., Montgomery. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Comsn., Montgomery, Ala.—Bids until Mch. 22 to construct 10.1 mi. road from Hartselle to Cullman County line in Morgan County; 106,672 sq. yds. bituminous surfacing; plans, etc., on file, and with Div. Engr., Decatur, Ala. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Mch. 9 to construct 3.231 mi. State road from Purdy southward; cost \$9,367; Barry County, State Aid Project 2.142; H. P. Moberly, Div. Engr., Woodruff Bldg., Springfield, Mo. (See Construction News—Road and Street Construction.)

Road Construction.—Trinity County, Fred J. Berry, County Judge, Groveton, Tex.—Bids in near future for constructing 17.8 mi. 16-ft. gravel road on Highway No. 19; cost \$200,000; W. J. Kelly, County Engr. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Mar. 8 to construct 6.402 mi. State road from California northward; cost \$25,743.05; Monticau County, State Aid Project 20.94; S. M. Rudder, Div. Engr., Sedalia, Mo. (See Construction News—Road and Street Construction.)

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Mar. 10 to construct 3.314 mi. State road from Boonville eastward and westward; cost \$14,961.61; Cooper County, State Aid Project 20.97; S. M. Rudder, Div. Engr., Sedalia, Mo. (See Construction News—Road and Street Construction.)

Road Construction.—Polk County, E. T. Murphy, County Judge, Livingston, Tex.—Bids until Feb. 24 to construct Highway No.

35 from Livingston to Trinity river; W. C. Youngs, County Engr. (See Construction News—Road and Street Construction.)

Road Oiling Equipment. — See Paving Equipment.

Rollers.—See Paving Equipment.

Sal Ammoniac.—E. K. McCoy, 408 W. 30th St., Norfolk, Va.—To purchase in quantity powdered sal ammoniac.

Saw (Heading) and Jointer.—J. D. Blackard Stave & Cooperage Co., Stuart, Va.—To purchase second-hand pendulum heading saw and heading jointer.

Saw-Mill.—Carolina Handle Co., Four Oaks, N. C.—One high capacity saw-mill.

Screen, Etc.—D. C. Elphinstone, 408 Continental Bldg., Baltimore, Md.—Jaw crusher elevator screen and bins, daily capacity 100 to 150 tons.

Screens.—Maryland Mineral Co., Texas, Md.—To purchase small tap screen, 2 screen decks for making three sizes of material desired.

Sewer Mains.—Town, W. H. Fitts, Mayor, Sanford, N. C.—Bids until March 7 to lay 6500 ft. storm water drains; plans, etc., from C. L. Gunter, City Clk., or Gilbert C. White Co., Conslt. Engr., Durham, N. C. (See Construction News—Sewer Construction.)

Sewers.—City, Mat Miser, Commr. Streets and Sewers, Huntington, W. Va.—Bids until Feb. 27 to construct lateral sewers in alley between Staunton and Winters Road and 30th St.; plans, etc., from A. B. Maupin, City Engr. (See Construction News—Sewer Construction.)

Sewers, Etc.—S. B. Crowell, Chrmn. Building Board, American Legion Sanatorium, San Antonio, Tex.—Bids until March 6 to construct sewerage and disposal plant at sanatorium at Kerrville, Tex.; Phelps & Dewees, Archts., San Antonio, Tex. (See Construction News—Sewer Construction.)

Sheathing.—Virginia Building Material Co., 527 E. Main St., Richmond, Va.—To purchase 45,000 ft. 1x6-in. and wider No. 3 common sheathing, dressed 2 sides; f. o. b. cars Richmond.

Shingles.—O. V. Becklenburg, 2556 St. Johns Ave., Jacksonville, Fla.—40 squares of surfaced asbestos-shingles. (See Buildings Proposed, Dwellings.)

Shovels (Steam).—D. G. Zeigler, Columbia, S. C.—Small steam shovels for concrete brick mfg. plant. (See Construction News—Concrete and Cement Plants.)

Sifting and Mixing Machine.—Easy Teether Medicine Co., T. P. Anderson, Treas., Westminster, S. C.—Sifting and mixing machine.

Signal and Clock Systems.—Parker & Rittenberry, 328-29 Blackburn Bldg., Amarillo, Tex.—Signal and program clock systems. (See Buildings Proposed—Schools.)

Signs (Metal, Pedestal).—Wm. S. Bunn, Nashville, N. C.—To correspond with mfrs. of or dealers in pedestal metal signs about 4 ft. high, labeled "Colored," for use in auditorium.

Spanish Moss Products.—J. H. Stoltzpus, Victoria, Tex.—Information regarding the use of Spanish moss and mchy. for its use if such mfr. is possible.

Steel Sash and Trim.—M. L. Parker, P. O. Box 605, Roanoke, Va.—Steel sash and trim. (See Buildings Proposed—Stores—W. Va., Princeton.)

Sterilizers.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until Feb. 27 to furnish and deliver sterilizers for U. S. Veterans' Hospital, Building No. 2, Webb Ave. and Kingsbridge Rd., Bronx, N. Y.; information on application.

Swimming Pool, Etc.—J. N. Landers, Purchasing Agt., Atlanta, Ga.—Bids until Mch. 1 to build additions to bath houses, pergola and Grant Park swimming pool; information on application. (See Construction News—Miscellaneous Construction.)

Swimming Pool.—J. W. Thurman, Chrmn., Building Committee, Rocky Mount, N. C.—Bids until Mch. 8 to construct swimming pool and necessary buildings; John P. Koch, Structural Consultant, Arrington Bldg. (See Construction News—Miscellaneous Construction.)

Tank.—Lion Oil & Refining Co., Victor H. Smith, Gen. Mgr., Kansas City, Mo.—15,000-bbl. steel, water top, tank. (See Construction News—Gas and Oil Enterprises.)

Tanks.—Sanford—Seever Orchard Co., Robertsdale, Ala.—Correspond with mfrs. of 16,000-gal. wood tank. (See Construction News—Gas and Oil Enterprises.)

Tarvia.—Duval County Comms., Frank Brown, Clk., Jacksonville, Fla.—Bids until Mch. to furnish one car Tarvia X, delivery f. o. b. Jacksonville.

Textile Catalogs.—Ewing Wilder, Middleboro, Ky.—Catalogs and information dealing with textile industry.

Tile.—Parker & Rittenberry, 328-29 Blackburn Bldg., Amarillo, Tex.—See Building Material.

Track, Etc.—Lewter F. Hobbs, Norfolk, Va.—500 ft. 24-in. gauge portable track, 16-lb. rail.

Trucks (Platform).—Lewter F. Hobbs, Norfolk, Va.—100 good second-hand factory platform trucks about 2 ft. wide x 5 ft. long.

Vacuum Cleaning System.—Parker & Rittenberry, 328-29 Blackburn Bldg., Amarillo, Tex.—Vacuum cleaning system. (See Buildings Proposed—Schools.)

Water Filter Parts.—Florida Filter Corp., 219 W. Bay St., Jacksonville, Fla.—Prices on 5 gal. (special mould) glass jars, miscellaneous rubber gaskets, Tripoli filter stones 1 to 10-in. diam., standard type water coolers and bottle type water coolers. (See Construction News—Metal Working Plants.)

Water Mains.—City, J. H. Shoepf, Pur. Agt., Asheville, N. C.—Bids until Feb. 27 to lay water mains; 20,140 ft., 8 to 12-in. cast iron pipe; B. M. Lee, City Engr. (See Construction News—Water-Works.)

Water Mains.—Town, W. H. Fitts, Mayor, Sanford, N. C.—Bids until March 7 to lay 14,000 lin. ft. water mains; plans, etc., from C. L. Gunter, City Clk., or Gilbert C. White Co., Conslt. Engr., Durham, N. C. (See Construction News—Water-Works.)

Water Power Development Mchy.—Osage Power Development Co., W. R. Banks, Mgr., Lock Box 292, Lamar, Mo.—Data and prices on water power development mchy. (See Construction News—Hydro-Electric Developments.)

Welded Wire Reinforcing.—F. B. Gray, Thomasville, N. C.—To correspond with mfrs. of woven or welded wire reinforcing for reinforced concrete culvert pipe.

Wire Glass.—M. L. Parker, P. O. Box 605, Roanoke, Va.—Wire glass. (See Buildings Proposed—Stores—W. Va., Princeton.)

Woodworking Machinery.—Andalusia Chamber of Commerce, Andalusia, Ala.—Prices on mchy. for mfr. of furniture, toilet seats, etc.

Woodworking Machinery.—Carolina Handle Co., Four Oaks, N. C.—To purchase woodworking mchy. including planer, double surfacer, double end trimmer 12-ft. maximum.

Woodworking Machinery.—C. E. Hines,

Buckhannon, W. Va.—Prices on woodworking machinery. (See Construction News—Woodworking Plants.)

Financial News

New Financial Corporations.

Ark., Stuttgart—Peoples National Bank, capital \$50,000, filed application to organize.

D. C., Washington—Standard National Bank, conversion of Standard Savings Bank, will organize with \$200,000 capital.

Fla., Jacksonville—J. Joel & Sons, capital \$20,000 chartered with Judah Joel, Pres.; L. J. Joe, Secy.-Treas.

Fla., Jacksonville—Florida State Bank, capital \$50,000 chartered with John Hurst, Pres.; A. St. George Richardson, Cashr.

Ga., Athens—Commercial Bank of Athens, consolidation of Peoples Bank and Commercial Bank, capital \$200,000, organized with Hugh H. Gordon, Jr., Pres.; Selig Bernstein, V. P.

Okla., Aline—Clarks National Bank, conversion of Aline State Bank, capital \$25,000, chartered with E. R. Clark, Pres.; E. V. Parker, Cashr.

Okla., Apache—American National Bank, conversion of First State Bank will organize with \$25,000 capital.

Okla., Brinkman—First National Bank, conversion of First State Bank will organize with \$25,000 capital.

Okla., Coweta—Security National Bank, conversion of First State Bank, capital \$30,000 chartered with J. L. Trower, Pres.; W. H. Rust, Cashr.

Okla., Muskogee—Standard Loan & Investment Co., capital \$250,000 chartered by M. C. Perara, Muskogee; S. L. Youngblood, Oklahoma City.

Okla., Pauls Valley—Pauls Valley Exchange National Bank, capital \$50,000, organized with J. L. Green, Pauls Valley; Edwin B. Cox, Mena, Ark.

Okla., Roosevelt—First Bank of Roosevelt, capital \$25,000 chartered by A. M. and Harvey Edmundson.

Tenn., Chattanooga—Hamilton Securities Co., capital \$25,000, applied for charter; those interested are: S. A. Backhanner, W. L. Shumate.

Tenn., Memphis—Goodbar, Meyers & Rountree, capital \$500,000, inceptd. by J. B. Goodbar, S. P. Walker.

Tex., Ennis—First National Bank, capital \$200,000 chartered with Edmund Raphael, Pres.; R. T. Blakey, Cashr.

New Securities.

Ala., Fayette—Drainage—Fayette and Lamar Counties Drainage Dist. No. 1 will sell \$500,000 bonds; W. M. Suddeth, Prest. Drainage Comms., Kennedy, Ala.

Ala., Selma—School—City, W. B. Hall, Mayor, voted \$150,000 of 6 per cent semi-annual bonds. (Lately noted to vote.)

Ala., Tuscaloosa—School—City, D. B. Robertson, Prest. Comms. will receive bids until Mch. 1 on \$60,000 of 5 per cent school bonds, dated Mch. 1, 1922.

Ala., Tuscaloosa—School—City National Bank purchased \$35,000 bonds at 90. (Lately noted.)

Ark., Harrisburg—Road—Poinsett County, M. H. Frazier will sell about \$120,000 road bonds.

Ark., Pine Bluff—Drainage—Salt Bayou Drainage Dist., W. C. Hudson, Secy. Commrs. will sell \$450,000 bonds in about 30 days. (Lately noted.)

Fla., Crawfordville—Road—Wakulla County Commrs. will vote Mar. 28 on \$200,000 bonds.

Fla., Cross City—Courthouse and Jail—Dixie County Commrs. will vote on \$35,000 bonds.

Fla., Haines City—Water—Town, J. R. Yale, Clk., plans voting on \$50,000 water bonds.

Fla., Jupiter—inlet—Jupiter Inlet Dist. Commrs. sold \$100,000 inlet bonds to Bessemer Investment Co., 787 Fifth Ave., New York, at \$100,325 and accrued interest. (Lately noted inviting bids.)

Fla., Kissimmee—Road—Osceola County, Lake Wilson Dist. voted \$80,000 bonds. Address County Commrs.

Fla., Lakeland—Floating Indebtedness—City Commrs. voted \$100,000 bonds. (Lately noted to vote.)

Fla., Miami—Park, Motor Equipment, Comfort Station, Incinerator, Sewer, Bridge, Etc.—City, C. W. Murray, Director of Public Works will vote Mar. 7 on \$700,000 bonds including \$30,000 municipal building, \$30,000 motor equipment, \$25,000 fire equipment, \$75,000 hospital, \$25,000 park, \$25,000 comfort station, \$50,000 harbor, \$30,000 incinerator plant, \$20,000 garbage disposal, \$100,000 sewerage disposal \$200,000 sanitary sewer and \$100,000 bridge. (Lately noted.)

Fla., Miami—School—Dade County Board Public Instruction will vote Mar. 21 on \$200,000 bonds of Special Tax School Dist. No. 2.

Fla., Oviedo—School—City voted \$20,000 bonds, Addressed the Mayor.

Fla., Sanford—Road and Bridge—Seminole County Commrs. will vote on \$98,500 bonds.

Fla., West Palm Beach—Road and Bridge—Palm Beach County Commrs. will receive bids until Mar. 7 on \$75,000 of 7 per cent semi-annual \$1000 denomination Special Road and Bridge Dist. No. 12 bonds, dated Sept. 1, 1921; Fred E. Fenno, Clk.

Ga., Americus—School—Shipp & Sheppard, Attorneys will receive bids until Feb. 27 on \$25,000 Lysian Consolidated School Dist. bonds.

Ga., Atlanta—School—M. L. Brittain, State Supt. Schools sold \$3,000,000 warrants to Citizens and Southern Bank, Atlanta, Ga., and S. N. Bond & Co., New York.

Ga., Bronwood—School—Terrell County voted \$7000 bonds. Address Board of Education, Dawson, Ga.

Ga., Leesburg—Water and Sewer—City plans voting on about \$30,000 water and sewer bonds. Address the Mayor.

Ga., Ochlocknee—School—A. Cuspeer, City Treas. sold \$25,000 of 6 per cent \$1000 denomination school bonds, dated Jan. 14, 1922 to Hanchett Bond Co., Chicago, Ill. (Lately noted inviting bids.)

Ga., Rome—School—Floyd County Board of Education will issue \$35,000 to \$40,000 bonds.

Ky., Falmouth—School—Henry W. Bishop, Secy., School Dist. No. 1, 204 W. 4th St., sold \$26,000 of 6 per cent \$500 denomination bonds to J. C. Mayer & Co., Cincinnati, O., at \$27.085. (Lately noted inviting bids.)

Ky., Frankfort—Road—State, Edwin P. Morrow, Governor may vote in November on \$50,000,000 bonds.

Ky., Grayson—Road and Bridge—Carter

County, Arthur Jarvis, Clk. Fiscal Court will receive bids until Feb. 23 on \$50,000 of 5 per cent semi-annual \$1000 denomination road and bridge bonds.

Ky., Harlan—School—City, D. W. Jones, Supt. Schools will receive bids on \$32,000 of 6 per cent \$500 denomination bonds, dated Jan. 1, 1922. (Lately noted voting.)

Ky., Middlesboro—School—City voted \$150,000 bonds. Address The Mayor. (Previously noted to vote.)

Ky., Newport—Water-Works Pump—City, Chas. D. McCrear, Commr. Finance sold \$150,000 of 5 per cent \$500 denomination bonds, dated Jan. 1, 1922 to Wm. R. Compton Co. and Jas. C. Wilson & Co., at par, accrued interest and \$2745 premium. (Lately noted inviting bids.)

La., Amite—Waterworks—City, Jos. Kopfler, Mayor will receive bids until Mar. 13 on \$90,000 of 6 per cent semi-annual \$500 denomination 30-yr. bonds.

La., Houma—Electric and Water—City, H. M. Bourg, Mayor, will vote Mar. 21 on \$200,000 water and electric bonds.

La., New Roads—Road—Pointe Coupee Parish, J. A. Oubre, Secy. sold \$64,500 Road Dist. No. 1 bonds to P. C. Major, Oscar, La., at 90%; will receive new bids Mch. 23 on \$73,000 Road Dist. No. 6, \$47,500 Road Dist. No. 4 and \$115,000 Road Dist. No. 2 bonds. (Lately noted inviting bids Feb. 6.)

La., Winnsboro—Water and Sewer—Town will vote in April on \$80,000 bonds. Address The Mayor.

La., Winnfield—School—School Board will receive bids until Mar. 4 on Winn Parish School Dist. No. 9 bonds.

Md., Frostburg—Sewer and Fire Truck—City, Olin R. Rice, Mayor, will sell \$10,000 fire truck and \$25,000 sewer bonds.

Md., Upper Marlboro—School—Prince Georges County sold \$65,500 of 5 per cent school bonds to Strother, Brodgen & Co., Calvert & Redwood St., and Mackubin, Goodrich & Co., 111 E. Redwood St.; both Baltimore, at 106.05. (Lately noted inviting bids.)

Miss., Biloxi—School—Harrison-Jackson Consolidated School plans issuing \$20,000 bonds.

Miss., Clarksdale—School—Coahoma County sold \$40,000 bonds to Clarksdale Savings Bank, at par, plus accrued interest plus premium of \$905.

Miss., Grenada—School—City invites bids on \$75,000 bonds; W. S. P. Doty, Mayor. (Lately noted voting bonds.)

Miss., Meridian—Hospital—Lauderdale County sold \$70,000 bonds to Sidney Spitzer, Cincinnati, O.

Miss., Meridian—Hospital—City sold \$70,000 bonds to Meridian Finance Corp., at par, accrued interest and premium of \$1000. (Lately noted voting.)

Miss., Natchez—Road—Adams County will vote Mar. 7 on \$40,000 bonds; John N. Campbell, Prest. Supvrs.

Miss., Oxford—School—Taylor Consolidated School Dist. No. 4, La Fayette County will vote Mar. 4 on \$14,500 bonds; D. T. Mitchell, Election Commr.

Miss., Pascagoula—Road—Jackson County Supvrs. will receive new bids Mar. 8 on \$387,000 road bonds.

Miss., Pass Christian—Water—City will vote on \$12,000 bonds. Address The Mayor.

Miss., Picayune—School and City Hall—City will vote on \$65,000 school and \$7,000 city hall bonds. Address the Mayor.

Mo., Caruthersville—Water—City sold \$65,000 of 5½ per cent semi-annual bonds to Liberty Central Trust Co., St. Louis, Mo. (Lately noted voting bonds.)

Mo., Graham—Water—City voted \$20,000 bonds. Address The Mayor.

Mo., Jefferson City—Tunnel, Bridge, Etc.—City, Paul C. Hunt, Mayor voted \$85,034.91 bonds. (Lately noted to vote.)

Mo., Odessa—Water and Light—City voted \$100,000 water and light bonds. Address the Mayor.

Mo., St. Charles—Electric and Water—City plans voting on \$250,000 bonds. Address The Mayor.

Mo., St. Joseph—Electric, Sewer, City Hall, Viaduct, Asphalt Plant, Etc.—City plans voting April 11 on \$3,400,000 bonds including \$300,000 electric, \$150,000 light equipment, \$795,000 sewer, \$750,000 city hall, \$240,000 fire department, \$105,000 hospital, \$240,000 memorial, \$390,000 museum, \$120,000 viaduct, \$75,000 auditorium, \$30,000 street sweepers, \$25,000 asphalt plant, \$45,000 police station, and \$45,000 for paying judgments against city. Address E. Marshall, Mayor.

Mo., St. Louis—Water, Sewer, Park, Street, Etc.—City may vote August 1 on \$38,700,000 improvement bonds including \$4,000,000 sewer, \$2,000,000 and \$8,200,000 street, \$1,700,000 and \$1,300,000 park, \$6,000,000 Lighting system, \$3,500,000 memorial building and \$12,000,000 water; Louis P. Aloe, Prest. Board of Aldermen.

N. C., Belmont—Street—Town, H. B. Gaston, Clk. sold \$50,000 of 6 per cent \$500 denomination street bonds, dated Jan. 1, 1922. (Lately noted inviting bids.)

N. C., Charlotte—Bridge—Mecklenburg County Commrs. will receive bids until Mch. 6 on \$75,000 of 6 per cent \$1000 denomination bonds; F. M. Gresham, Clk.

N. C., Charlotte—School—City Commrs. receives bids Feb. 21 on \$500,000 bonds.

N. C., Cherryville—Improvement—Town will receive until Feb. 23 on \$110,000 bonds. Address The Mayor.

N. C., Clinton—Road and Bridge—Sampson County sold \$100,000 of 6 per cent semi-annual 20-yr. bonds to C. W. McNear & Co., Chicago, Ill., at 101.27. (Lately noted inviting bids.)

N. C., Concord—Road and Bridge—Cabarrus County Commrs., J. F. Harris, Clk. sold \$250,000 of 5½ per cent semi-annual \$1000 denomination road and bridge bonds, dated Feb. 1, 1922 to Stacy & Braun, Toledo, O., at premium of \$1525. (Lately noted inviting bids.)

N. C., Elizabethtown—School—Bladen County, B. J. Cromartie, Clk. board of Education will receive bids until Mar. 7 on \$25,000 Brown Marsh Township Dist. bonds; \$15,000 Elizabethtown High School Dist.; \$10,000 Franches Creek Township Dist., and \$6000 White Oak High School Dist.; 6 per cent semi-annual \$1000 denomination, dated Jan. 1, 1922. (Lately noted inviting bids Feb. 6.)

N. C., Fayetteville—Water and Sewer—City will vote in May on \$300,000 bonds; E. R. Mackethan, Mayor.

N. C., Franklin—School—John S. Trotter, Treas. Board Graded School Trustees will receive bids until Mch. 20 on \$50,000 bonds; 6 per cent semi-annual \$1000 and \$500 denomination, dated Feb. 1, 1922.

N. C., Jamesville—School—A. J. Manning, Clk. Board of Education will receive bids until Mar. 15 on \$30,000 of 6 per cent semi-annual 20-yr. Jamesville Dist. bonds.

N. C., Kenansville—Road and Bridge—Duplin County Commrs., Jas. J. Bowden, Clk., sold \$100,000 of 6 per cent semi-annual \$1000 denomination bonds to Providence Savings Bank & Trust Co., at \$106.288. (Lately noted inviting bids.)

N. C., Kenansville—School—Duplin Coun-

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

ty Board of Education will receive bids until Mch. 6 on \$15,000 or \$20,000 bonds of 6 per cent semi-annual 17-yr.; L. Middleton, Chrmn.

N. C., Kernersville—Water—Town contemplates voting on water bonds in near future; O. L. Joyner, Secy.-Treas.

N. C., Lenoir—County Home—Caldwell County Commrs. will sell \$51,000 bonds.

N. C., Marshall—Road—Madison County Commrs. will receive bids until Mar. 1 on \$150,000 of 6 per cent 30-yr. serial road bonds; J. Will Roberts, Secy.

N. C. Mebane—School—City voted \$100,000 bonds. Address The Mayor.

N. C., Monroe—Road and Bridge—Union County Commrs. will receive bids until Mar. 17 on \$250,000 of 6 per cent semi-annual \$1000 denomination bonds, dated Mch. 1, 1922; M. C. Long, Clk.

N. C., Mount Holly—Town, W. B. Rutledge, Clk. will receive bids until Mch. 6 on \$80,000 of 6 per cent serial 40-yr. bonds.

N. C., Raleigh—Road and Bridge—Wake County Commrs., Wm. H. Penny, Clk., will receive bids until Feb. 28 on \$300,000 of 5 1/2 or 5 1/4 per cent \$1000 denomination funding bonds, dated Mch. 1, 1922.

Okla., Vera—Electric Light—City will vote Mar. 20 on \$7,000 electric light bonds. Address The Mayor.

N. C., Raleigh—Water—City will sell bonds; T. B. Eldridge, Mayor.

N. C., Rutherfordton—Street—Town, M. L. Justice, Mayor sold \$89,000 of 6 per cent semi-annual \$1000 denomination street bonds, dated July 1, 1921 to Weil, Roth & Co., Indianapolis, Ind. (Previously noted inviting bids.)

N. C., Statesville—School—City, Geo. W. Long, Clk. and Treas. will receive bids until Feb. 27 on \$150,000 of 5 1/2 per cent semi-annual \$5000 denomination bonds.

N. C., Shelby—Hospital—Cleveland County Commrs. voted \$100,000 bonds. (Lately noted to vote.)

N. C., Southern Pines—School—Moore County will vote April 4 on \$50,000 bonds. Address County Commrs., Carthage, N. C.

N. C., Vanceboro—Electric—Village, Stonewall Jackson, Mayor plans issuing \$15,000 electric light bonds.

N. C., Wentworth—School—Rockingham County sold \$10,000 of 6 per cent \$500 denomination bonds, dated Mar. 1 to Sidney, Spitzer & Co., Toledo, O. at par and accrued interest.

N. C., Wilson—Funding—Wilson County Commrs. receives bids Feb. 22 on \$217,500 of 6 per cent semi-annual bonds, dated Mch. 1, 1922; R. T. Barnes, Clk.

N. C., Windsor—Bridge—Bertie County sold \$45,000 of 5 1/2 per cent bridge bonds to Weil, Roth & Co., New York; these bonds were offered on Nov. 7.

Okla., Blackwell—Water—City, J. W. Morse, Mayor voted Feb. 21 on \$20,000 bonds.

Okla., Buffalo—Courthouse—Harper County will vote Mar. 13 on \$100,000 of 6 per cent \$1000 denomination 25-yr. Address Clanie Anderson. Lately noted.)

Okla., Cement Road—Cement Township will vote Mar. 7 on \$49,000 of 6 per cent \$1000 denomination serial 25-yr. bonds, dated Mar. 7, 1922. Address Caddo County Commissioners, Anadarko, Okla. (Lately noted.)

Okla., Cushing—Hospital—City sold \$65,000 hospital bonds at \$66,000. Address The Mayor.

Okla., Elk City—Water—City plans voting on \$150,000 water bonds. Address The Mayor.

Okla., Guthrie—School—City, Board of Education will vote on \$300,000 bonds.

Okla., Lawton—School—City voted \$239,000 school bonds. Address The Mayor. (Lately note to vote.)

S. C., Clio—Water—Board Public Works, W. F. Crass, Chrmn. will receive bids until Mar. 7 on \$50,000 of 6 per cent water bonds.

S. C., Hampton—Road—Randolph Murdaugh, Attorney receives bids Feb. 15 on \$93,000 of 6 per cent Peoples Township bonds.

S. C., Spartanburg—School—Holly Springs School Dist. No. 78 will vote Feb. 25 on \$8000 bonds; T. J. Hannon, Trustee.

Tenn., Ashland City—School—Cheatham County sold \$10,000 of 5 per cent school bonds to Caldwell & Co., Nashville, Tenn.

Tenn., Jamestown—Farmers Bank, capital \$25,000 organized with W. M. Johnson, Prest.; H. B. Beers, Cashr, Gallatin, Tenn.

Tenn., Petersburg—School—W. W. Gill, City Clk. will receive bids until Mch. 6 on \$10,000 of 8 per cent Morgan school bonds, dated Dec. 15, 1921.

Tex., Anahuac—School—J. M. Johnson, Prest. School Board, will receive bids until Mch. 18 on \$15,000 of 6 per cent 40-yr. bonds of Anahuac Independent School Dist.

Tex., Bonham—Road—Fannin County Commissioners Court will sell \$70,000 Windom-Dodd City Road Dist. bonds.

Tex., Bremond—School—Independent School Dist. will sell \$35,000 of 5 per cent \$1000 denomination 20-yr. bonds; these are part of \$50,000 voted Jan. 28; Edward W. Roberts, Secy. School Board. (Previously noted.)

Tex., Bryan—Bridge—Attorney General, Austin, Tex., approved \$74,000 of 6 per cent bonds of Brazos County.

Tex., Cameron—Road—Milam County Road Dist. No. 29 sold \$120,000 of 5 1/2 per cent bonds, dated Jan. 15, 1920, to Geo. L. Simpson & Co., Dallas, Tex.

Tex., Clarksville—Reclamation—Attorney General, Austin, Tex., approved \$30,000 Red River County bonds of Dist. No. 3.

Tex., Claude—School—City sold \$60,000 of 6 per cent 1-40-yr. serial school bonds to Bosworth, Chanute & Co., Denver, Col. (Lately noted voting.)

Tex., Dallas—Road—Dallas County Commrs. Court will sell \$1,700,000 bonds.

Tex., Orange—Road—Orange County will vote Mar. 18 on \$700,000 bonds. Address County Commrs.

Tex., Dallas—Sewer—City, Sawnie Aldridge, Mayor will vote April 4 on \$100,000 bonds.

Tex., Denton—Park—City sold \$75,000 of 5 per cent 10-40-yr. park bonds voted in April, 1921, to Breg, Garrett & Co., Dallas, Tex.

Tex., El Paso—School—Canutillo School Dist. voted \$15,000 bonds; Myra Winkler, School Supt.

Tex., Fort Stockton—Attorney General, Austin, Tex., approved \$75,000 bonds.

Tex., Fort Worth—Sewer, Paving, Bridge, Street Signs, Etc.—City, E. R. Cockrell, Mayor will vote in April on \$1,000,000 bonds including \$25,000 sewer, \$100,000 gutter repair, \$200,000 paving repair, \$325,000 new paving, \$25,000 bridge, \$25,000 street signs, \$25,000 equipment.

Tex., Handley—School—Handley Independent School Dist. sold \$50,000 of 6 per cent 40-yr. bonds to Breg, Garrett & Co., Dallas, Tex., at \$49,750.

Tex., Houston—School, Street and Sewer—City plans voting on \$2,000,000 bonds including \$1,000,000 school, \$750,000 street and \$250,000 sewer. Address Mayor Holcombe.

Tex., Livingston—Electric—City voted \$30,000 electric bonds. Address the Mayor. (Lately noted to vote.)

Tex., Palestine—School—Palestine Independent School Dist. sold \$42,500 of 6 per cent 10-40-yr. bonds to National Bank of Commerce, St. Louis, Mo., at par plus \$256 premium. (Lately noted.)

Tex., Robstown—Sewer and Street—City voted \$80,000 bonds including \$40,000 street and \$40,000 sewer. Address The Mayor. (Lately noted to vote.)

Tex., Van Alstyne—Sewer and Water—Attorney General, Austin, Tex., approved \$30,000 sewer and \$15,000 water bonds.

Tex., Waxahachie—Water and Sewer—Attorney General, Austin, Tex., approved \$37,000 City water and sewer bonds.

Va., Covington—Paving—City, Geo. M. Carpenter, Treas., sold \$125,000 of 5 per cent 30-yr. bonds to Fred E. Nolting & Co., Richmond, Va., at par less discount. (Lately noted inviting bids.)

W. Va., St. Albans—Street—City, Wm. D. Davis, Mayor will vote Feb. 25 on \$60,000 bonds.

Financial Notes.

Employees Savings Bank, Spartanburg, S. C. will increase capital from \$5000 to \$10,000. Madison Bank & Trust Co., Madison, Tenn. will increase capital from \$10,000 to \$15,000. Perry Finance Corp., Louisville, Ky. will increase capital from \$50,000 to \$60,000.

Consolidated Insurance Agency, Florence, S. C. will increase capital from \$20,000 to \$60,000.

Trade Literature.

Buckets and Other Equipment.

The Vulcan Iron Works, Inc., Jersey City, N. J., manufacturers of dredging and contracting equipment, boilers, engines, turbines, etc., have issued a new catalog covering their line of buckets, etc. This is their first catalog showing equipment and it is their intention to add to their products along lines of improvement according to demands. It has 24 large pages finely illustrated and with appropriate tables and descriptions.

Snow Removal By Tractor Power.

The new bulletin No. C-168 of the Holt Manufacturing Company, Peoria, Ill., and Stockton, Calif., completely covers the subject of snow removal. It contains a number of pictures showing Caterpillar tractors attached to snow plows, etc., at work clearing pathways through roads, streets, etc., although several other illustrations relate to their use on general highway work. Sundry testimonials as to the efficiency of this equipment are appended.

Drying Machinery, Etc.

Christie dryers, calciners and coolers are considered and illustrated in a copyrighted booklet of fifteen pages issued by the L. R. Christie Company, New York, Pittsburgh and Chicago. L. R. Christie, president of the company, who has spent more than twenty years in the invention and development of established drying equipment, contributes an article on dryer engineering that is exceedingly complete and is accompanied by outline illustrations. Much other valuable material is also presented.

(Continued on Page 76)

**$\frac{1}{3}$ more
per dollar**



THE DU PONT COMPANY leads the way in the production of more efficient and more economical explosives. In Dumorite, its latest achievement, it has made possible

***a great step in the reduction
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Dumorite is a new money-saving dynamite which gives you over $\frac{1}{3}$ more work for your dollar—a guncotton-nitroglycerin dynamite without a headache—a non-freezing dynamite which can be used successfully at any temperature.

Dumorite has approximately the same strength as 40% dynamite and does the same work, stick for stick. And you can buy 135 to 140 sticks of Dumorite at the same price as 100 sticks of 40%.

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(Continued from Page 74h)

All Steel Trucks and Trailers.

Illustrated circulars issued by the Sharon Pressed Steel Co., Sharon, Pa., describe their "Bluenose" hand trucks, which are made of steel throughout with the exception of wheels and handles, and also the Sharon "Brute" trailer trucks for use with tractors. These latter are similarly built of steel throughout with the exception of the wheels.

How to Build Asphalt Pavement.

The Texas Company, of Houston, Tex., whose New York office is at 17 Battery Place, New York City, has issued a booklet on Texaco sheet asphalt that is most valuable to highway builders, as it gives complete instructions for the construction of asphalt pavement. It is finely and instructively illustrated. The company will send a copy to anyone interested on request.

Cooperage and Handle Machinery.

The Trevor Mfg. Co., Lockport, New York, have issued two excellent catalogs, Catalog A, relating to the cooperage machinery which they manufacture and Catalog B, to the handle and wood turning machinery. Other machinery for shingles, baskets, crates and boxes is also built. The catalogs have large pages and they are finely illustrated. The information which they contain is complete and in detail.

Cast Iron Tank for Storage.

The Conveyors Corporation of America, formerly the American Steam Conveyor Corporation, Chicago, Ill., is manufacturing the American cast iron storage tank, which is described and illustrated in a folder. This tank was not designed to hold liquids, but for dry storage purposes and among the materials for which it can be used are coal, building materials, coke, sand, ashes, fullers earth, bauxite, potash, animal charcoal, etc. In fact, all bulky materials ordinarily stored in silos, tanks, hoppers and bins may be stored satisfactorily in this tank.

Steam Condensing Plants.

The Ingersoll-Rand Company, 11 Broadway, New York, have published in pamphlet form a paper on steam condensing plants, by Paul Bancel, which was read before the Baltimore section of the American Society of Mechanical Engineers, several months ago. The author makes a study of power plant conditions and also discusses in detail new phases of the fixed and operating charges of power plant equipment, all of which information is of importance to power plant engineers. In this bulletin the I-R surface condensers, a recent important development by the company, and also their barometric and low level multi-jet types, are described and pictured, all of them displaying economic advantages of consequence.

Opportunities at Old Hickory.

Bulletin No. 14 of the Nashville Industrial Corporation, purchasers of the Old Hickory Powder Plant, Jacksonville, Tenn., relates to the manufacturing possibilities of the place and points the way to promoters and organizers of industries seeking a location or desiring change of location to satisfactorily solve problems confronting them. The Corporation has already located a number of substantial manufacturing operations following investigations of individual cases. Old Hickory is near to the markets of Southern and Central business territory and is important with regard to labor, housing, power, fuel, water, transportation and raw material as well as markets. There is also much Government material and equipment, new and used, to be obtained by locating industries for which it may be available.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertiser as from advertisers.

Prices Reduced On Explosives.

A special dispatch from Wilmington, Del., to the Manufacturers Record says that the Hercules Powder Company has reduced prices on high explosives permissible and blasting powders. New prices effective February 17 will be quoted on request.

In Production at Once, Although Burned Out

Although the plant and equipment of the Blystone Manufacturing Company at Cambridge Springs, Pa., was totally burned on Sunday morning, Feb. 12, at a loss estimated to be more than \$100,000, the company is already located in temporary quarters and is in production again. It is hoped to have equipment coming through immediately and there will, it is stated, be no delay in service to customers for the Blystone batch mixers or the complete equipments for manufacturing Blystone dry wall concrete tile and block.

Sale of Shipyard and Equipment.

The Winnisimmet Ship Yard, situated at Chelsea, Massachusetts, and on Boston Harbor, is to be sold at auction, according to a formal announcement in another column on Wednesday, Thursday and Friday, respectively March 1, 2 and 3, sale beginning at 10.30 A.M. daily. The property, which is fully and completely equipped as a ship repair yard has a brand new marine railway at the 35 foot main ship channel and there is to be included in the sale a remarkable assortment of new and nearly new machine tools, machinery and other mechanical equipment, stock in trade, supplies, office equipment, etc., etc. The auctioneers are J. E. Conant & Co., of Lowell, Massachusetts, who will furnish catalogs to anyone interested.

Report of Baldwin Locomotive Works.

The eleventh annual report of the Baldwin Locomotive Works, covering the calendar year 1921 shows total sales of close to \$50,000,000, the exact amount being \$49,945,506.24 on which there was a manufacturing profit of \$8,112,693.88. Other income of the company increased the gross profits to \$10,625,457.03 and net profits was \$8,962,273.10. After deductions for depreciation, income taxes and deferred profits there was left a net cash profit of \$5,044,096.47 out of which dividends were paid on the common and preferred stocks, leaving a surplus of \$2,244,096.47 for the year. The total assets of the company shown by the balance sheet amount to nearly \$82,000,000 and including the Standard Steel Works, the total assets are almost \$93,000,000.

Large Sale of Machine Shop Equipment.

An important sale of machine tools, equipment, accessories, etc., of the Owen-Magetic Motor Car Corporation will take place—according to a formal announcement in another column giving full particulars—at the plant of the corporation, Forty Fort, Luzerne County, Pennsylvania, near Wilkes-Barre, on Tuesday, Wednesday and Thursday, March 7, 8 and 9, the sale beginning at 10 A.M. each day. There are to be disposed of milling machines, grinders, slotters, boring mills, engine and machine lathes, drill presses, air compressors, etc. A large quantity of small tools of different kinds will also be sold, besides heat treating equipment, bar steel and forgings, standard auto parts, completed automobiles, belting, office furniture, etc. Samuel T. Freeman & Co., 1519-1521 Chestnut St., Philadelphia, Pa., are the auctioneers, who will supply catalogs.

Have Opened a New York Office.

The Sun Shipbuilding Company, of Chester, Pa., have recently opened an office in New York City, its location being at 25 Broadway.

Change of Business Connection.

Mr. C. L. Dewey, who was associated with Mr. Carl Akeley in the invention and development of the Cement-Gun, and who has done extensive cement-gun contract work under the names of the Dewey Cement-Gun Company and the T aylor-Dewey Contracting Co., of Allentown, Pa., has joined the forces of the Cement-Gun Construction Co., of Chicago, Ill., and will devote his time exclusively to the development of cement-gun contract work.

Branch Manager Appointed.

On February 1, Robert W. Wolcott became manager of the New Orleans branch of the Lukens Steel Company, succeeding the late James W. Porch, who died in July 1921 after twenty three years effective service at New Orleans. Mr. Wolcott has been connected with the sales department of Bethlehem Fabricators at Bethlehem, Pa. Besides handling direct mill shipments, the New Orleans branch has a large warehouse at 620 to 634 South Peters St. carrying a full line of steel products.

Gas Engine Agents Appointed.

The Rathbun Jones Engineering Company, Toledo, Ohio, has appointed the Ingersoll-Rand Company, 11 Broadway, New York, general sales agent for Rathbun gas engines, used to drive compressors, pumps and other machinery manufactured by the Ingersoll-Rand organization. These engines, which are of the vertical multi-cylinder type, have been in successful operation for over 20 years and are built to use the various forms of gases which can be employed successfully in an internal combustion engine. They are made in sizes from 100 to 1450 brake horsepower.

Change of Name.

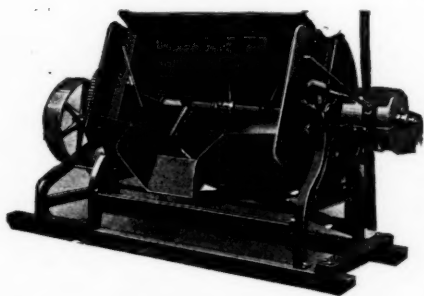
The Medart Company is the new name adopted by the Medart Patent Pulley Company and by which it will hereafter be known. The general offices and works continue at St. Louis and the name only is changed, the organization, ownership, control, management, policies and personnel remaining the same. The new name, it is explained, is accurate and comprehensive the word Medart standing for everything in line shafting equipment. The company also has office and warehouse in Cincinnati besides other branch offices in Chicago and Philadelphia.

A Cargo of Very Large Oil Tanks.

The Hammond Iron Works, manufacturers of steel tanks and general steel plate work, Warren, Pa., are making a shipment from Baltimore of a single cargo on the Ward Line steamship Cauto. This shipment consists of about 95 carloads of material for tanks for the Gulf Refining Company, Port Arthur, Tex. The complete order comprises thirteen tanks of 140 feet diameter and 30 feet high. These tanks, it is understood, are among the largest, if not the largest oil tanks in this country and they were made from specifications provided by the Gulf Refining Company.

FIRE Destroyed Our Plant BUT— We Can Handle Your Orders

On Sunday, February 13th, our plant was burned to the ground—a great loss. However, we immediately arranged for temporary quarters and there will be no delay in getting your **BLYSTONE** Mixers. It is true they are worth waiting for, but you will not have to suffer this delay. Blystone service to its customers is first, last and always. If you have used the Blystone you know its advantages, if you have not, let us tell you. Write today.



BLYSTONE MANUFACTURING COMPANY

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CAMBRIDGE SPRINGS, PENN.

L. & P. MANUFACTURING COMPANY, NIAGARA FALLS, ONT.
MANUFACTURERS AND DISTRIBUTORS FOR CANADA



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SEASON: DECEMBER TO MAY

FOR ACCOMMODATIONS WRITE

**CREAMER & TURNER
PROPRIETORS**

(Continued from Page 76)

In a New Business.

The Chillingworth Engineering Corporation announces that it has associated with it, Messrs. Frank H. Plum, Herbert Plumer, George E. Mellin and Harold Von Thaden, formerly of the C. W. Hunt Engineering Corporation, and with the consent and approval of the last named organization, will carry on a business of a character similar to that conducted by it. The Chillingworth Engineering Corporation will occupy offices at 143 Liberty St., New York.

A Shear-Grinding Machine Produced.

A motor driven device for grinding shears has been placed on the market by the Accurate Tool Works, Erie, Pa. It is known as the Accurate Shear Serrating Grinder, which is claimed to give perfect serrations to the ends of the blades. It is noted, in the case of barbers shears, that rough edges break the hairs instead of cutting them besides causing the clippings to fly in one's face. Use of this machine makes it unnecessary to take the temper out of the blades before grinding and it can be operated by anyone without experience. It has a General Electric Universal motor, with four feet of cord, emery wheels and one diamond dressing tool.

Increased Sales of Power Apparatus.

The Westinghouse Electric & Manufacturing Co. announces a marked increase in the sale of large power apparatus in January, sales of \$1,500,000 having been made in turbo-generators and condensers. Among the purchasers were the Pennsylvania Edison Co., Easton, Pa.; Madison (Wis.) Gas & Electric Co. and North Carolina Light & Power Co. Most of the business was included in ten units. The Takata & Company, of Japan, has ordered another large turbine generator for one of its new plants. During the month 50 steam auxiliary units were sold for a wide range of applications, many of the purchasers being industrial power plants.

Will Fulfill Plans for Expansion.

Geo. W. Cravens, formerly of Westfield, New Jersey, has been elected president of the Climax Engineering Co., Clinton, Iowa, while G. W. Dulany, Jr., formerly president, has been elected chairman of the Board of directors, finding that his duties as chairman of the G. W. Dulany Trust, of which the Climax Engineering Co. is a subsidiary, prevented him from giving to the latter all the attention which its increased business required. Other officers of the Climax organization are C. B. Stebbins, vice president; R. D. Upton, treasurer; J. M. Thomsen, secretary, all of whom were reelected. Mr. Cravens, the new president, was for many years with the General Electric Co. and he has also had a wide engineering and commercial experience as chief engineer or general manager of other large companies. The company which manufactures the Climax high class, moderate speed, heavy duty engines, is now in position to go ahead with broader plans recently formulated.

Change of Business Connection.

Perry O'Neill, late president of the O'Neill Engineering Company, of Dallas, Texas, now represents the Elrod Engineering Company, of Dallas and Los Angeles as contracting engineer.

Portable Drill and Grinder.

The Wodack combination portable electric drill and grinder has been recently developed by the Wodack Electric Tool Corporation, 23-27 South Jefferson Street, Chicago, and fills, it is remarked, a long felt want in shops where hand drilling and grinding operations have to be performed, yet not enough of either to warrant the purchase of two separate machines. This combination tool will drill holes in metal or wood besides covering average requirements for grinding. It weighs complete, only 18 pounds and the motor develops $\frac{1}{2}$ horsepower under load. The drilling capacity is from $\frac{1}{8}$ inch to $\frac{1}{2}$ inch in steel and the grinding wheel is 6 inches diameter and $\frac{3}{4}$ inch face. There are two speeds, slow for drilling and high for grinding.

U. S. Steel and Carnegie Pension Fund.

The eleventh annual report of the United States Steel and Carnegie Pension Fund covering operations for 1921, has been issued and showing total disbursements of nearly \$948,000 for the year. It comprises a total of thirty-two companies, consisting of the United States Steel Corporation and its subsidiaries. The fund was established January 1, 1911 for their employees and the grand total of disbursements since then is over \$6,828,000. The active beneficiaries of the fund number 3437 as compared with 2969 at the beginning of 1921. The averages for cases 1911 to 1921 inclusive are: Age 66.10 years; service, 30.95 years; pension, \$24.10. J. B. Erskine is manager and J. H. Wood, assistant manager of the fund, the offices being in the Oliver Building, Pittsburgh, Pa. E. H. Gary is president, Chas. L. Taylor, vice president; W. J. Filbert, secretary; R. A. Franks, treasurer. C. L. Close is chairman of the pension committee, at the Empire Building, New York City.

A Most Valuable Directory.

The Special Libraries Directory, edited by Dorsey W. Hyde, Jr. and published by the Special Libraries Association, Mills Building, Washington, D. C., is a book that will be widely appreciated and consulted. Its editor says that according to information obtained as a result of the Association's survey there are more than 1300 collections of specialized information scattered throughout America, and there is reason to believe that this figure represents but a small proportion of the total of such special collections. The directory gives the addresses and names of librarians of these numerous libraries covering industries and manufacturers, commerce, banking, civics and government, law, geology and mineralogy, agriculture, chemistry, electricity, engineering, finance, history, insurance, labor, legislation, public utilities, railroads, religion and theology, roads, science and technology, sociology and economics, statistics, textiles, and very many other general subjects. The price of the Directory is \$2.

Elevated Traffic Signals.

Teleco, Inc., Knoxville, Tenn., are representatives in the South of the Crouse-Hinds Company, of Syracuse, New York, manufacturers of "Stop! Watch Traffic Signals." Several pictures in a tastefully prepared folder show these signals installed in Knoxville. Each installation consist of a tower with a signal box occupied by a traffic officer, while immediately below it, but well above the moving stream of traffic, are the colored lights that he operates. These units are weather proof and dust proof and they carry, in addition to the signal lights, a warning light which can be flashed to indicate that the direction of traffic is about to be changed, giving time for motorists to prepare to start.

New Method of Roof and Floor Construction.

The Marks system of roof and floor construction is a method of building roofs either flat or pitched and of either gypsum or concrete construction, the business being conducted by H. E. Marks, Incorporated, 513 Empire Building, Pittsburgh, Pa. It is described as producing a smooth, attractive, paneled under surface, free from stains and dusting. "The Marks system," says an announcement, "is unique. It is a monolithic, poured in place slab, but it entirely eliminates the necessity for building temporary forms and their supports, in which to contain the aggregate until it sets. And unique, further, in that the simple, self-supporting forms become an integral part of the completed roof." This makes a roof consisting of steel Ts supported on roof purlins, steel angles, gypsum board panels, wire mesh reinforcement, and a cast-in-place gypsum or concrete slab.

Youngstown Sheet and Tube Report.

The report of the Youngstown (Ohio) Sheet & Tube Company and subsidiary companies for the year 1921 shows earnings from operations including miscellaneous income, of \$3,878,011.60 after deducting repairs and maintenance expense, special charges and reserve for general taxes. After setting aside provision for depreciation of plants and equipment (\$3,139,110.72), provision for exhaustion of coal properties (\$36,848.79), and reduction in value of inventories to cost or market at Dec. 31, 1921 (\$721,947.73), making a total of \$3,897,907.24, there was net loss for the year of \$19,895.64, and after deducting dividends of the common and preferred stocks there was a deficit for the year of \$2,714,024.14. Gross sales of the combined companies totaled \$39,277,979.57 of which \$29,963,919.48 were sales of the Youngstown Sheet & Tube Co. The payroll of the latter for the year totaled \$10,105,667.95. Shipments of products aggregated 367,410 tons. Overhead expenses, it is stated, were reduced "to the very minimum" during the year and relations with employees have been very harmonious, due in great measure to the representation plan. It is noted that the reduced dividends were paid out of surplus accumulated in more fortunate years and that there are now many hopeful signs of future improvement of business. Greater business for the company is expected in the fall and perhaps some profits.

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The text is written in non-technical language so that the information may be equally clear to those who have limited or broad experience with bonds of this type.

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Capital and Surplus - \$2,300,000.00
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 school, county, drainage and levee bonds.

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Good municipal bonds issued by cities, towns, counties
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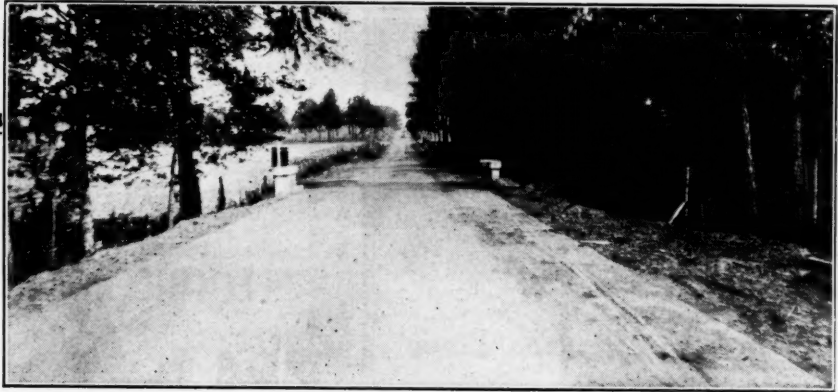
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road on National High-
way north of Valdosta,
Ga. Width 16 ft.; length
4.92 miles. Built by
Nichols Contracting Co.
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In Georgia alone 380,000 sq. yds. of Concrete Roads

have been laid with

"ENSLEY" & "ALA CITY"
BASIC SLAG
CRUSHED & SCREENED



One course concrete pavement in Brooks Co., near
Quitman, Ga. F. W. Long Co., Jacksonville, contract-
ors, Federal Aid Project No. 88.

We Can Save You Money

Mr. Contractor, we can save you
money on shipments to all points in
Alabama, Georgia, Florida, Missis-
sippi, and to many points in Louisi-
ana and the Carolinas. Get our price
list!

F. A. P. No. 80

F. A. P. No. 80—This 4½ mile road
of slag Concrete is in Glynn County,
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slag macadam road at Pierle Acid
plant near Brunswick.



Five or six years ago few Highway En-
gineers could be persuaded to even con-
sider Basic Slag in the construction of re-
inforced concrete bridges. Today the larg-
est and most important bridges built
under Federal Aid direction are Slag con-
crete bridges.

And that is rapidly becoming true,
too, of concrete roads. State and Fed-
eral highway engineers are learning
from experience that Slag Concrete
fully meets their requirements for
strength and endurance and that, in
addition, Slag Concrete is highly re-
sistive to temperature changes.

Birmingham Slag Co.

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ATLANTA BIRMINGHAM THOMASVILLE

North Carolina Ranks First in Crop Value Per Acre.

Raleigh, N. C., Feb. 11—[Special.]—North Carolina last year in comparison with other states ranked fifth in value of all crops. Those outranking this state had considerably larger total cultivated areas, but the per acre value of such crops was higher than any other important state, reports the Cooperative Crop Reporting Service of the State and Federal Departments of Agriculture.

The value of the North Carolina crops on one-fourth the improved farm area, is almost two thirds of the value of the Texas crops. Illinois had but 11 per cent more in value of crop and yet had over three times the farmed area. North Carolina had more than the value of Iowa's crops and only 29 per cent of the latter's crop acreage. This state had but three per cent less of total crop values on one-third less producing area than New York. Even a comparison with California shows North Carolina with 75 per cent of her crop value from a farmed area less than two-thirds as much, while the 22 official crop basis gives the state a larger total value.

Still another interesting comparison is by individual crops. Texas, Illinois, Iowa, Kansas and most other middle western states are more of the one crop type than is this state. Last year, corn occupied one-third of our cultivated area, and cotton only one-fifth, while small grains, hays, seed legumes, and improved pastures each had about ten per cent. The much discussed tobacco crop occupies only six per cent of the cultivated area.

Georgia's Crop Diversification.

Martin V. Calvin, statistician Georgia Agricultural Department, writing in the Atlanta Constitution, gives some interesting facts and figures about Georgia's agriculture. The value of all crops in Georgia last year was \$177,986,000, and merely to show that Georgia, as well as the rest of the Southern States, is practicing diversification of crops to a greater extent than the Western grain States, the itemized list of its various crops is given as follows:

Crop.	1921. Production.	1921. Value.
Cotton	69,975,000	\$69,720,000
Corn (bu.)	6,550,000	37,087,000
Cotton seed	610,000	11,767,000
Peanuts (bu.)	12,410,000	10,480,000
Hay (tons)	8,652,000	9,638,000
Sweet potatoes (bu.)	160,832,000	12,410,000
Oats (bu.)	9,697,000	7,818,000
Peanuts (lbs.)	2,846,000	5,537,000
Georgia cane syrup (gal.)	2,933,000	3,333,000
Irish potatoes (bu.)	2,449,000	2,933,000
Wheat (bu.)	1,725,000	2,846,000
Cow peas (bu.)	1,449,000	2,536,000
Tobacco (lbs.)	1,551,000	2,373,000
Apples (bu.)	13,200,000	1,974,000
Sorghum syrup (gal.)	698,000	1,396,000
Pecans (lbs.)	3,290,000	1,391,000
Pears (bu.)	1,994,000	1,125,000
Rye (bu.)	171,000	283,000
Rice (bu.)	108,000	189,000
All other crops*	78,000	72,000
Total		5,488,000

* Include watermelons, canteloupes, strawberries, soy beans, velvet beans, etc.

American Shipbuilding During 1921.

An analysis of recent figures shows that 188 seagoing vessels of more than 1000 gross tons each and costing \$225,000,000 were constructed during the past year, 87,750 tons of which were for foreign account, states the Secretary of The Atlantic Coast Shipbuilders' Association, in an article published in the current issue of the Association Bulletin.

It is also pointed out that in the case of tanker tonnage, two-thirds of the building last year was done in the United States while increases are also shown in the number of large vessels being constructed, for in comparison with 32 ships of 10,000 gross tons and over reported launched in 1920, there

were 47 last year. Aside from this, motorship construction continues to gain and the few vessels of actual transatlantic liner type that have been built during and subsequent to the war, coupled with the inquiries that have been made regarding this class of tonnage, would seem to indicate revival in this direction.

Manufacturing in Missouri and Virginia Cities.

Preliminary figures covering the manufacturing census of the principal cities of Missouri and Virginia have been issued by the Census Bureau as follows:

	1919.	1914.	Per cent increase 1914-1919.
Cape Girardeau, Mo.			
Number of establishments...	50	42	...
Capital	\$4,864,000	\$3,074,000	58.2
Value of products	8,587,000	3,888,000	120.8
Carthage, Mo.			
Number of establishments...	49	Less than 10,000	...
Capital	\$1,884,000	population in 1914.	...
Value of products	6,628,000		
Columbia, Mo.			
Number of establishments...	25	22	...
Capital	\$1,752,000	\$1,414,000	23.9
Value of products	2,232,000	1,270,000	75.8
Hannibal, Mo.			
Number of establishments...	67	66	...
Capital	\$6,729,000	\$4,056,000	65.9
Value of products	14,027,000	6,215,000	125.7
Jefferson City, Mo.			
Number of establishments...	42	50	*
Capital	\$5,683,000	\$4,537,000	25.3
Value of products	10,188,000	8,087,000	26.0
Joplin, Mo.			
Number of establishments...	139	100	39.0
Capital	\$10,114,000	\$4,038,000	150.5
Value of products	14,220,000	5,950,000	139.0
Kansas City, Mo.			
Number of establishments...	997	1,032	*5.2
Capital	\$83,000,000	\$53,341,000	55.6
Value of products	192,815,000	60,953,000	216.3
Moberly, Mo.			
Number of establishments...	25	30	*
Capital	\$2,451,000	\$2,066,000	18.6
Value of products	4,497,000	3,137,000	43.4
St. Joseph, Mo.			
Number of establishments...	219	267	*18.0
Capital	\$25,066,000	\$10,854,000	130.9
Value of products	50,697,000	17,068,000	197.0
St. Louis, Mo.			
Number of establishments...	3,205	2,787	15.0
Capital	\$575,938,000	\$314,728,000	83.0
Value of products	871,700,000	360,480,000	141.8
Sedalia, Mo.			
Number of establishments...	60	69	*
Capital	\$2,851,000	\$4,386,000	19.5
Value of products	5,562,000	2,922,000	90.4
Springfield, Mo.			
Number of establishments...	107	709	*1.8
Capital	\$12,857,000	\$7,010,000	83.4
Value of products	18,813,000	6,193,000	203.8
Alexandria, Va.			
Number of establishments...	35	49	*
Capital	\$19,238,000	\$4,574,000	320.6
Value of products	16,908,000	3,660,000	362.0
Charlottesville, Va.			
Number of establishments...	37	Less than 10,000	...
Capital	\$1,311,000	population in 1914.	...
Value of products	1,029,000		
Danville, Va.			
Number of establishments...	44	43	...
Capital	\$29,261,000	\$6,783,000	331.4
Value of products	30,183,000	5,558,000	443.1
Lynchburg, Va.			
Number of establishments...	65	73	*
Capital	\$17,589,000	\$8,426,000	108.9
Value of products	27,450,000	9,919,000	176.7
Norfolk, Va.			
Number of establishment...	207	209	*1.0
Capital	\$22,516,000	\$13,089,000	72.0
Value of products	29,588,000	13,710,000	115.8
Petersburg, Va.			
Number of establishments...	116	87	33.3
Capital	\$14,202,000	\$6,497,000	118.6
Value of products	26,440,000	12,610,000	109.7
Portsmouth, Va.			
Number of establishments...	48	42	14.3
Capital	\$8,137,000	\$1,478,000	450.5
Value of products	9,376,000	1,731,000	441.7
Richmond, Va.			
Number of establishments...	550	466	18.6
Capital	\$93,940,000	\$48,667,000	93.0
Value of products	156,724,000	62,491,000	150.8
Roanoke, Va.			
Number of establishments...	99	73	35.6
Capital	\$21,188,000	\$9,666,000	119.2
Value of products	34,864,000	16,582,000	110.3
Staunton, Va.			
Number of establishments...	54	45	20.0
Capital	\$1,621,000	\$813,000	99.4
Value of products	2,567,000	1,448,000	77.3

* Decrease.

PROPOSALS

BOND ISSUES
BUILDINGS
PAVING
GOOD ROADS

Bids close March 15, 1922.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 15, 1922.—**SEALED PROPOSALS** will be opened in this office at 3 p. m., March 15, 1922, for the construction of extension, etc. to the United States Post Office, Hagerstown, Md. Drawings and specifications may be obtained from the Custodian at Hagerstown, Md., or at this office, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect. Postponement of opening of Bids from

Bids close February 27, 1922.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Feb. 11, 1922.—**SEALED PROPOSALS** will be opened in this office at 3 p. m., Feb. 27, 1922, for furnishing and delivering sterilizers for the U. S. Veterans Hospital, Building No. 2, Webb Ave. and Kingsbridge Road, Bronx, N. Y. Specifications may be obtained at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close March 1, 1922.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Feb. 13, 1922.—**SEALED PROPOSALS** will be opened in this office at 3 p. m., March 1, 1922, for furnishing and delivering Plumbing Fixtures, all carrier charges paid, at the U. S. Veterans Hospital, Rutland, Mass. Specifications may be obtained at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close March 23, 1922.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 13, 1922.—**SEALED PROPOSALS** will be opened in the office of the Superintendent of Construction, U. S. Veterans Hospital, Whipple Barracks, Prescott, Ariz., at 1 p. m., March 23, 1922, and in the office of the Supervising Architect, Treasury Department, Washington, D. C., at 3 p. m., March 23, 1922, and in the office of the supervising architect, Treasury Department, Washington, D. C., at 3 P. M. March 23, 1922, for the installation complete of two new boilers and mechanical changes in the Cold Storage and Ice Plant Building, at the United States Veterans Hospital No. 50, at Whipple Barracks, Prescott, Ariz., in accordance with the drawing and specification, copies of which may be had at this office, or at the office of the Superintendent of Construction, at the U. S. Veterans Hospital, Whipple Barracks, Prescott, Ariz., in the discretion of the Supervising Architect and Bidders may forward their bids to either place. Jas. A. Wetmore, Acting Supervising Architect.

Bids close March 23, 1922.

United States Engineer Office, Wilmington, N. C.—Sealed proposals will be received here until 12 M., Mar. 23, 1922, and then opened for the construction of motor dredge tender Watcoosa. Information on application.

Bids close March 14, 1922.

U. S. ENGINEER'S OFFICE, Jacksonville, Fla. **SEALED PROPOSALS** will be received here until 12 M., March 14, 1922 and then opened, for dredging in Key West Harbor, Fla. Further information on application.

Bids close April 17, 1922.

PROPOSALS FOR the purchase of one Tug Boat offered for sale by The Panama Canal. Sealed proposals will be received at the office of the General Purchasing Officer, The Panama Canal, Washington, D. C., until 10:30 o'clock A. M., April 17, 1922, at which time they will be opened in public, for purchasing the above-mentioned tug boat. Blanks and information relating to this Circular (1471) may be obtained from this Office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 611 Gravier Street, New Orleans, La.; and Fort Mason, San Francisco, Calif.; also from the United States Engineer Offices in the principal cities throughout the United States. A. L. Flint, General Purchasing Officer.

Bids close March 7, 1922.

\$150,000 Municipal Improvement Bonds

Radford, Va.

Sealed proposals will be received by the City Council of the City of Radford, Va., at the office of the City Clerk in said City, until March 7th, 1922, at 8 o'clock P. M., when they will be publicly opened, for the purchase, at not less than par and accrued interest, of \$150,000 Municipal Improvement Bonds of said City. Said bonds will be dated January 1, 1922, will mature January 1, 1952, will be of the denomination of \$1000 each, and will bear interest payable semi-annually. They will be coupon bonds, with privilege of conversion into fully registered bonds. Principal and interest will be payable in gold coin of the United States, at the office of the United States Mortgage & Trust Company, in the City of New York, and interest on registered bonds will, at the option of the holder, be paid in New York exchange.

Bidders are requested to submit bids for bonds bearing interest at 5%, 5½% and 6%.

Proposals must be enclosed in a sealed envelope marked on the outside "Proposal for Bonds" and addressed to H. P. Anderson, City Clerk, Radford, Va.

Bidders must deposit with said City Clerk before making their bids, or present their bids, a certified check drawn to the order of the City of Radford, upon an incorporated bank or trust company, or a sum of money for or in an amount equal to two per centum of the face amount of bonds bid for, to secure the Municipality against any loss resulting from the failure of the bidder to comply with the terms of his bids. Purchasers must pay accrued interest from the date of the bonds to the date of delivery.

Successful bidders will be furnished with the opinion of Messrs. Reed, Dougherty & Hoyt, of New York City, that the bonds are valid and binding obligations of the City of Radford. The bonds will be prepared under the supervision of the United States Mortgage & Trust Company, of New York City, which will certify as to the genuineness of the signatures of the city officials and the seal impressed thereon. January 31, 1922.

The City Council reserves the right to reject any or all bids.

H. P. ANDERSON,
City Clerk.

Bids close March 7, 1922.

\$2,000,000 5% Improvement Bonds

CITY OF JACKSONVILLE, FLORIDA.

The City of Jacksonville, a municipal corporation, does hereby give notice that on the 7th day of March, 1922, at three o'clock, P. M., it will offer for sale an issue of Improvement Bonds, in the sum of Two Million (\$2,000,000.00) Dollars, which bonds shall bear interest at the rate of five (5) per cent per annum payable semi-annually, said bonds to be dated April 1st, 1921, and to mature April 1st, 1931. Said bonds were authorized at a special election held by the City of Jacksonville, Florida, on the 1st day of March, 1921. Each bid must be accompanied by a certified check on a Jacksonville bank, made payable to Frank H. Owen, Chairman of the City Commission, for 2 per cent of the par value of the bonds bid for, and is to be retained as stipulated damages in event of non-performance of any proposal accepted.

Printed circulars containing more definite and detailed information, and blank forms for bids, may be had on application to E. P. Owen, Jr., Secretary of the City Commission, Jacksonville, Florida. The right is reserved to reject any and all bids.

CITY OF JACKSONVILLE, FLORIDA.
ACTING THROUGH ITS CITY COMMISSION BY FRANK H. OWEN,
Chairman.

Attest:
E. P. OWEN, Jr.,
Secretary.

Bids close March 7, 1922.

\$50,000 6% Sewerage Bonds.

State of South Carolina
County of Marlboro.

NOTICE

Notice is hereby given that the Town of Clio, S. C., will offer for sale on Tuesday, March 7, 1922, at 12 noon at the office of the Town Council of the said Town of Clio, sewerage bonds in the sum of fifty thousand dollars, bearing interest at the rate of 6% per annum, and payable at such times as may be decided on the date when the bonds are to be offered for sale. The right is reserved to reject any or all bids.

By authority of the Sewerage Commission of the Town of Clio, and with the approval of the Town Council of said Town.

J. C. COVINGTON,
Chairman.

Bids close February 28, 1922.

\$350,000 5% Improvement Bonds

Florence, S. C.

Notice is hereby given that until three o'clock p. m. on February 28th, 1922, the City Council of the City of Florence will entertain, and at the last mentioned time will open sealed bids for the purchase of three hundred and fifty thousand (\$350,000) dollars of bonds of said city, to be used for the purpose of building, repairing and improving streets and sidewalks in the said city of Florence, pursuant to an election duly held in said city on December 20th, 1921; said bonds to run for thirty years, and to bear interest at a rate of not more than five per cent per annum, payable semi-annually. Each bid must be accompanied by a certified check in the sum of one thousand (\$1000.00) dollars, payable to the order of the City of Florence, before it will be considered.

The Council reserves the right to reject any or all of said bids.

CITY COUNCIL OF THE CITY OF FLORENCE.

By W. R. BARRINGER,
Mayor.

J. F. STACKLEY,
E. J. SMITH,
B. S. MEEKS,
F. H. BARNWELL,
Councilmen.

Bids close March 7, 1922.

\$200,000 6% Road Bonds

Bakersville, N. C.

The Road Board for Mitchell County, North Carolina, will sell \$200,000 Mitchell County Road Bonds on March 7th, 1922, at 10 A. M. Bonds will be dated January 1st, 1922 running 30 years, bearing 6 per cent interest from date. Interest payable semi-annually. The bonds will be ready for delivery on date of sale. All bids must be sealed and a certified check for \$10,000.00 must accompany each and every bid. The Board reserves the right to reject any and all bids.

This Feb. 6th, 1922.

M. A. ANDERSON,
Chairman.

Bids close March 7, 1922.

\$50,000 6% Waterworks Bonds

State of South Carolina,
County of Marlboro.

NOTICE

Notice is hereby given that the Board of Public Works of the Town of Clio, S. C., will offer for sale on Tuesday, March 7, 1922 at twelve noon, at the office of the Town Council of the said Town of Clio, water works bonds of said town in the sum of fifty thousand dollars, bearing interest at the rate of 6% per annum, and payable at such times as may be decided on the date the bonds are to be offered for sale. The right is reserved to reject any and all bids.

By authority of the Board of Public Works of the Town of Clio.

W. F. CROSS,
Chairman.